

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL101719\
 Data File : VL034320.D
 Acq On : 17 Oct 2019 17:23
 Operator : SY/AP
 Sample : K5111-15 0.4 PPB MDL
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT4-2019DL

Quant Time: Oct 18 04:33:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 17 05:12:37 2019
 QLast Update : Thu Oct 17 05:12:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	1000376	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.21	114	1936764	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.15	117	1927670	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.49	95	1703001	10.43	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.30%

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.03	85	81179	0.471 ppbv	97
3) Chlorodifluoromethane	2.97	51	51839	0.442 ppbv	99
4) Chloromethane	3.12	50	30634	0.442 ppbv	100
5) Vinyl Chloride	3.24	62	28332	0.428 ppbv	97
6) Bromomethane	3.46	94	13985	0.432 ppbv	92
7) Chloroethane	3.54	64	4537	0.195 ppbv	93
8) Dichlorotetrafluoroethane	3.17	85	68457	0.458 ppbv	99
9) Propene	2.99	41	19868	0.382 ppbv	97
10) Heptane	8.17	43	46438	0.348 ppbv	95
11) Trichlorofluoromethane	3.95	101	71994	0.440 ppbv	100
12) 1,1,2-Trichlorotrifluoroet	4.49	101	29900	0.279 ppbv #	14
13) Ethanol	3.61	45	6348	0.545 ppbv	97
14) Bromoethene	3.74	108	5561	0.132 ppbv #	1
15) Acetone	3.85	43	81445	0.569 ppbv	96
16) 1,3-Butadiene	3.31	39	11628	0.200 ppbv #	9
17) tert-Butyl alcohol	4.31	59	45748	0.501 ppbv	97
18) 1,1-Dichloroethene	4.29	96	18375	0.391 ppbv	87
19) Isopropyl Alcohol	3.99	45	33971	0.426 ppbv #	84
20) Methylene Chloride	4.35	84	22050	0.426 ppbv #	72
21) Allyl Chloride	4.42	41	29812	0.377 ppbv	91
22) trans-1,2-Dichloroethene	4.89	96	10271	0.219 ppbv	86
23) Vinyl Acetate	5.09	43	60195	0.337 ppbv #	97
24) 1,1-Dichloroethane	5.02	63	54981	0.415 ppbv	99
25) Ethyl Acetate	5.71	43	97379	0.403 ppbv	99
26) Hexane	5.72	57	39543	0.384 ppbv	91
27) Carbon Disulfide	4.56	76	26903	0.252 ppbv #	49
28) Methyl tert-Butyl Ether	5.06	73	32301	0.207 ppbv #	51
29) Chloroform	5.78	83	71089	0.436 ppbv #	83
30) Cyclohexane	7.17	84	9375	0.124 ppbv #	1
31) cis-1,2-Dichloroethene	5.57	61	35836	0.343 ppbv #	87
32) 1,1,1-Trichloroethane	6.54	97	59799	0.378 ppbv	95
34) 2-Butanone	5.27	43	26782	0.169 ppbv #	56
35) Carbon Tetrachloride	7.06	117	61898	0.367 ppbv	91
36) Benzene	6.92	78	33179	0.179 ppbv #	86
37) 1,2-Dichloroethane	6.34	62	28523	0.206 ppbv #	86
38) Trichloroethene	7.88	130	23310	0.313 ppbv #	83
39) 1,2-Dichloropropane	7.65	63	21558	0.269 ppbv	94
41) Tetrahydrofuran	6.10	42	13695	0.156 ppbv #	43
42) Bromodichloromethane	7.83	83	69321	0.409 ppbv	99
43) Methyl Methacrylate	8.06	69	11191	0.146 ppbv #	1
44) 2,2,4-Trimethylpentane	7.91	57	117349	0.341 ppbv	92

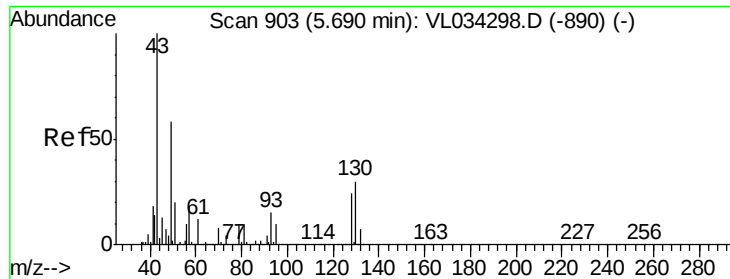
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL101719\
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 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101619AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct 17 05:12:37 2019
 QLast Update : Thu Oct 17 05:12:37 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
45) t-1,3-Dichloropropene	9.33	75	11384	0.122	ppbv	90
46) cis-1,3-Dichloropropene	8.74	75	7254	0.067	ppbv #	56
47) 1,1,2-Trichloroethane	9.53	97	32299	0.399	ppbv #	91
48) Dibromochloromethane	10.37	129	46515	0.350	ppbv	100
49) Bromoform	13.12	173	40953	0.348	ppbv	96
50) 4-Methyl-2-Pentanone	8.81	43	74497	0.329	ppbv	97
51) 2-Hexanone	10.21	43	27697	0.149	ppbv #	36
52) Tetrachloroethene	11.28	164	11640	0.160	ppbv #	69
53) Toluene	9.86	91	65176	0.318	ppbv	91
54) 1,2-Dibromoethane	10.67	107	31375	0.261	ppbv	99
56) 1,1,1,2-Tetrachloroethane	12.19	131	14822	0.167	ppbv #	1
57) Chlorobenzene	12.22	112	67978	0.423	ppbv #	76
58) Ethyl Benzene	12.78	91	92252	0.342	ppbv	89
59) m/p-Xylene	13.07	91	70091	0.300	ppbv #	32
60) o-Xylene	13.76	91	85243	0.367	ppbv	97
61) Styrene	13.61	104	27838	0.170	ppbv #	31
62) Isopropylbenzene	14.74	105	114837	0.374	ppbv	96
63) 1,1,2,2-Tetrachloroethane	13.75	83	75658	0.405	ppbv	99
64) n-propylbenzene	15.64	120	12731	0.162	ppbv #	1
65) tert-Butylbenzene	16.82	119	41232	0.152	ppbv #	1
66) Benzyl Chloride	17.07	91	11640	0.108	ppbv #	63
67) sec-Butylbenzene	17.38	105	139428	0.364	ppbv	97
69) p-Isopropyltoluene	17.73	119	105560	0.338	ppbv	95
70) n-Butylbenzene	18.64	91	104430	0.308	ppbv	97
71) 2-Chlorotoluene	15.54	91	44364	0.186	ppbv #	62
72) 4-Ethyltoluene	15.92	105	56721	0.217	ppbv #	69
73) 1,3,5-Trimethylbenzene	16.08	105	84828	0.328	ppbv	91
74) 1,2,4-Trimethylbenzene	16.85	105	49435	0.183	ppbv #	80
75) 1,3-Dichlorobenzene	17.08	146	67070	0.414	ppbv	97
76) 1,4-Dichlorobenzene	17.22	146	17518	0.111	ppbv #	1
77) 1,2-Dichlorobenzene	17.90	146	60502	0.381	ppbv	96
78) Hexachloro-1,3-Butadiene	23.46	225	13546	0.103	ppbv #	1
79) Naphthalene	22.31	128	11928	0.060	ppbv #	69
80) Naphthalene,2-methyl-	25.06	142	9489	0.166	ppbv	97
81) 1,2,4-Trichlorobenzene	22.03	180	11415	0.089	ppbv #	11

(#) = qualifier out of range (m) = manual integration (+) = signals summed



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 902

Delta R.T. -0.00 min

Lab File: VL034320.D

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Instrument :

MSVOA_L

ClientSampleId :

MDL-MDL-AIR-03-QT4-2019DL

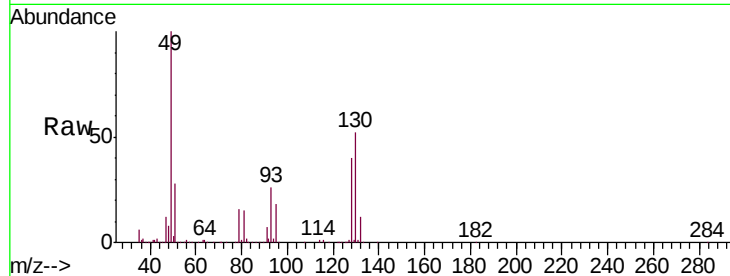
Tgt Ion: 49 Resp: 1000376

Ion Ratio Lower Upper

49 100

128 41.5 20.6 61.8

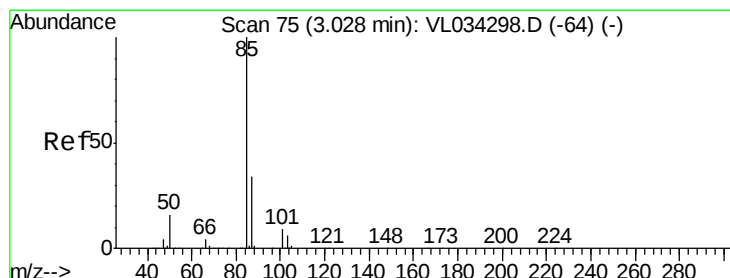
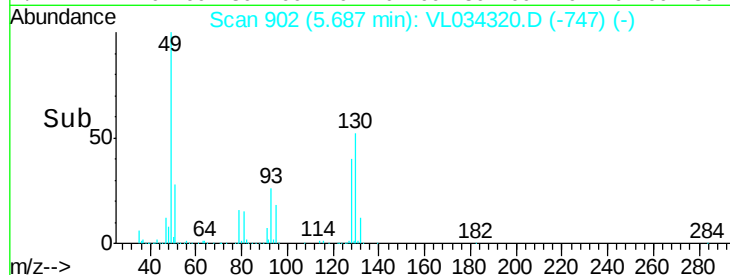
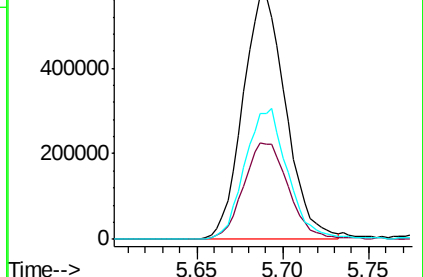
130 53.4 26.2 78.5



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.471 ppbv

RT: 3.03 min Scan# 75

Delta R.T. 0.00 min

Lab File: VL034320.D

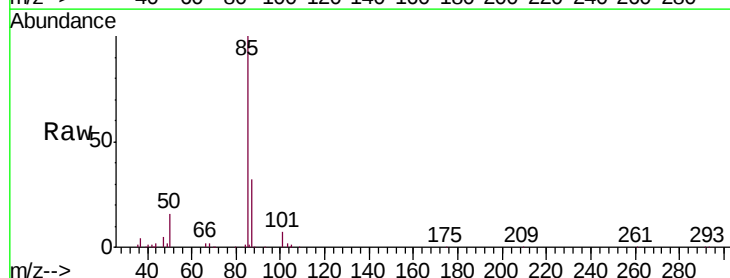
Acq: 17 Oct 2019 17:23

Tgt Ion: 85 Resp: 81179

Ion Ratio Lower Upper

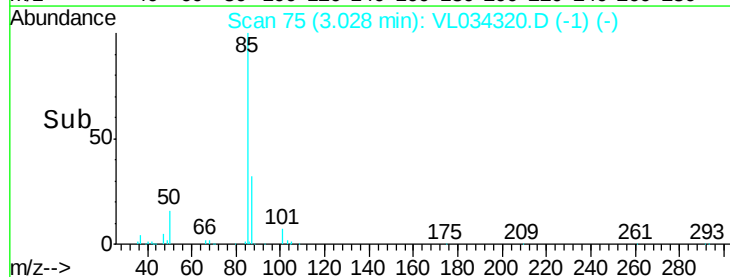
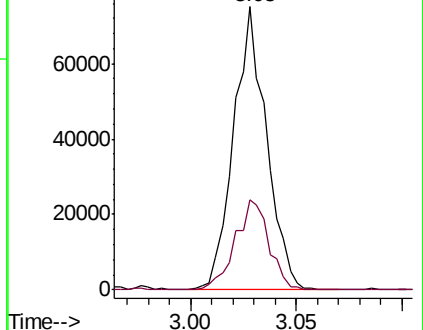
85 100

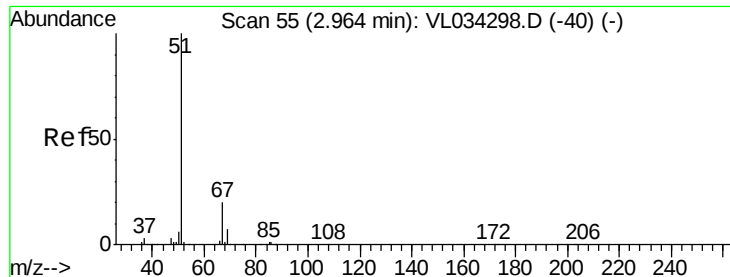
87 32.0 27.0 40.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.442 ppbv

RT: 2.97 min Scan# 56

Delta R.T. 0.00 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

Instrument :

MSVOA_L

ClientSampleId :

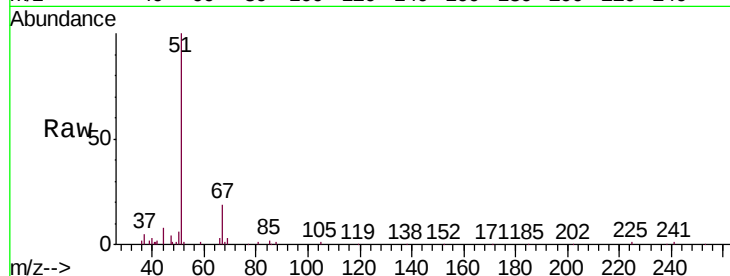
MDL-MDL-AIR-03-QT4-2019DL

Tgt Ion: 51 Resp: 51839

Ion Ratio Lower Upper

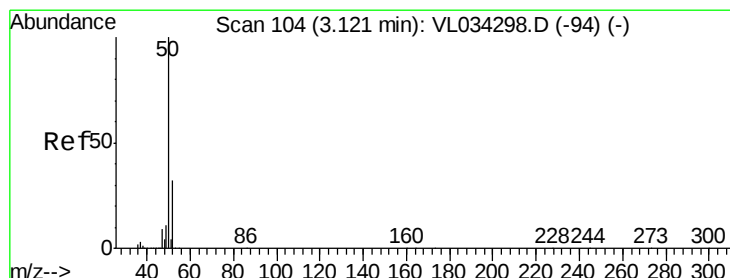
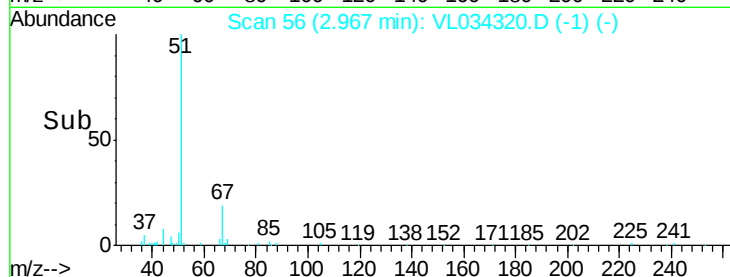
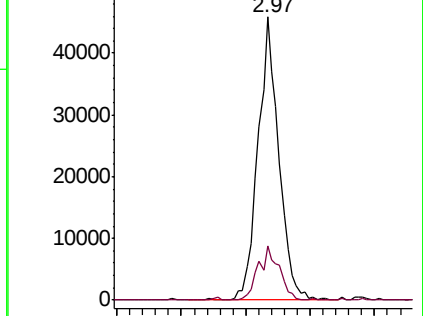
51 100

67 19.3 15.8 23.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.442 ppbv

RT: 3.12 min Scan# 105

Delta R.T. 0.00 min

Lab File: VL034320.D

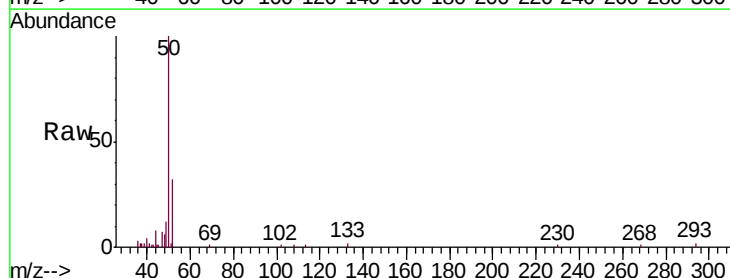
Acq: 17 Oct 2019 17:23

Tgt Ion: 50 Resp: 30634

Ion Ratio Lower Upper

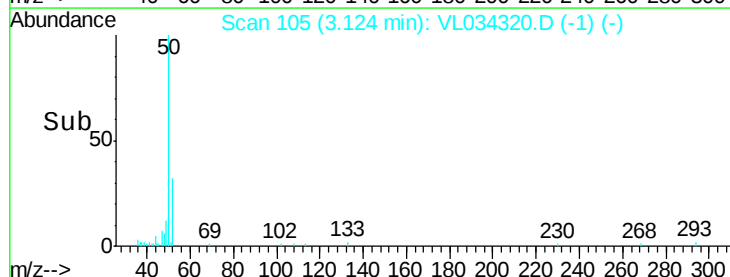
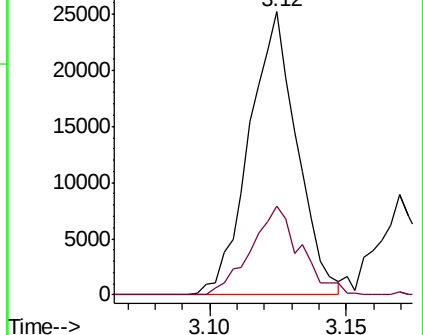
50 100

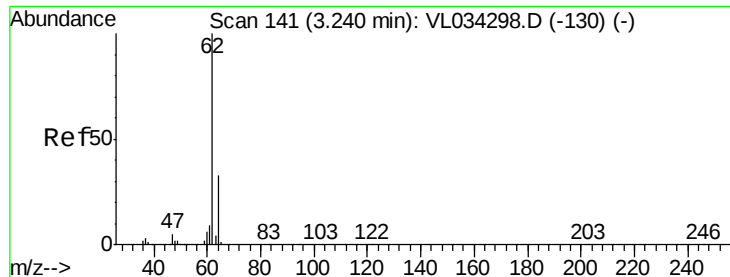
52 31.5 25.4 38.2



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.428 ppbv

RT: 3.24 min Scan# 142

Delta R.T. 0.00 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

Instrument :

MSVOA_L

ClientSampleId :

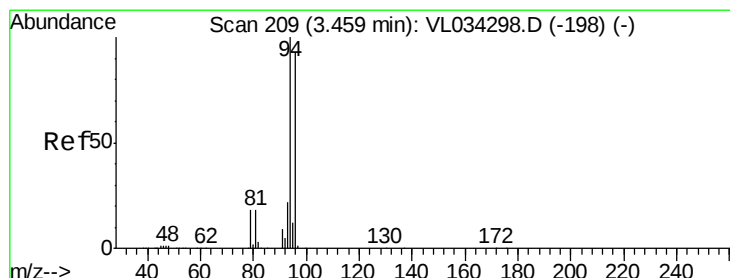
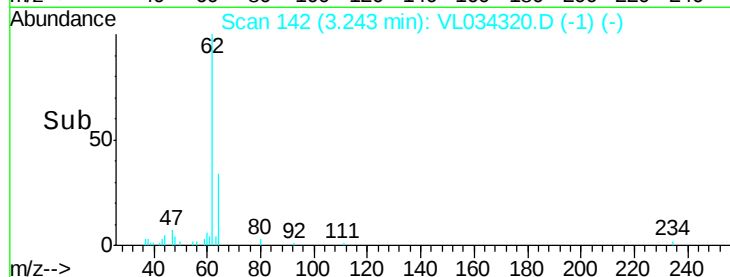
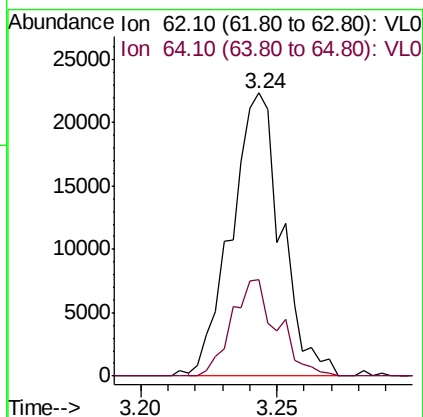
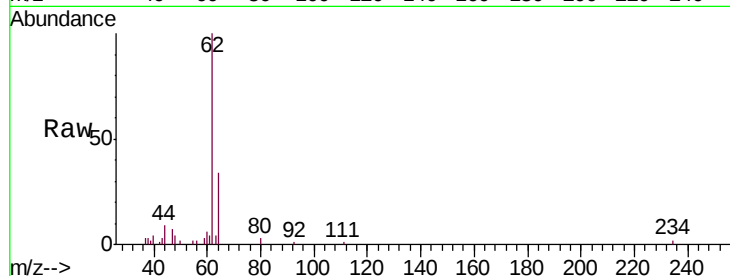
MDL-MDL-AIR-03-QT4-2019DL

Tgt Ion: 62 Resp: 28332

Ion Ratio Lower Upper

62 100

64 34.0 26.0 39.0



#6

Bromomethane

Concen: 0.432 ppbv

RT: 3.46 min Scan# 210

Delta R.T. 0.00 min

Lab File: VL034320.D

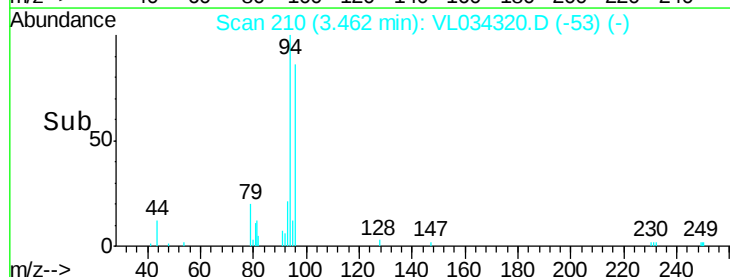
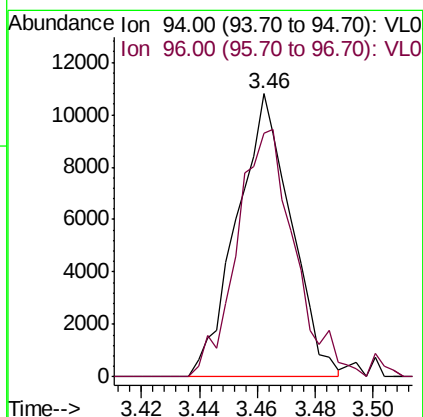
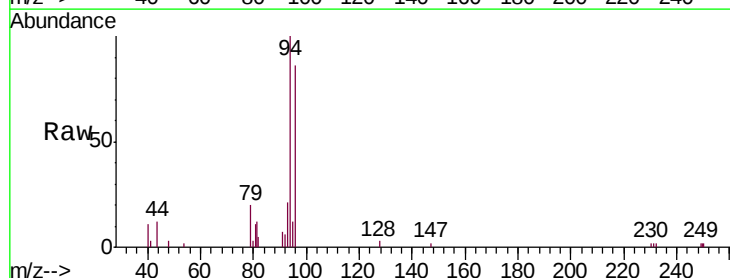
Acq: 17 Oct 2019 17:23

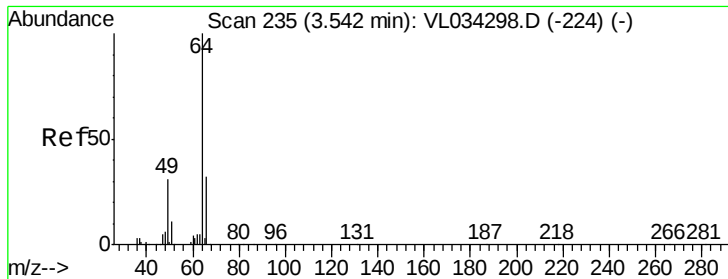
Tgt Ion: 94 Resp: 13985

Ion Ratio Lower Upper

94 100

96 86.0 74.6 112.0





#7

Chloroethane

Concen: 0.195 ppbv

RT: 3.54 min Scan# 235

Delta R.T. 0.00 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

Instrument :

MSVOA_L

ClientSampleId :

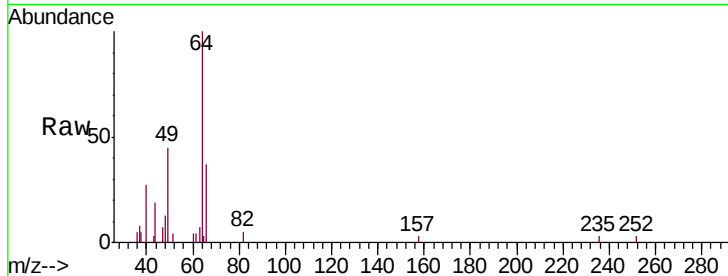
MDL-MDL-AIR-03-QT4-2019DL

Tgt Ion: 64 Resp: 4537

Ion Ratio Lower Upper

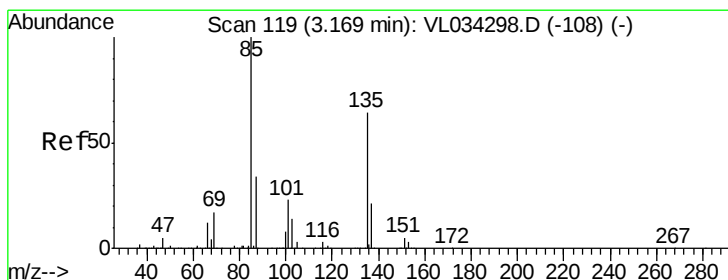
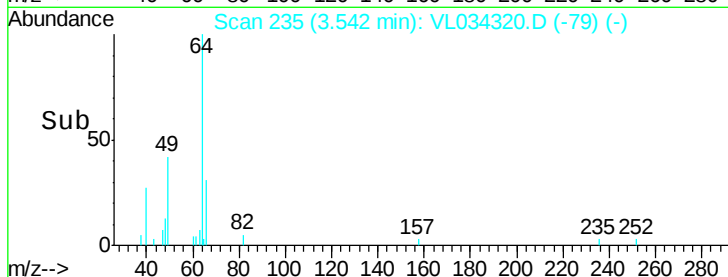
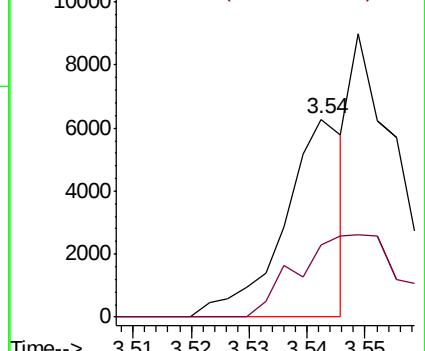
64 100

66 35.7 25.4 38.0



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#8

Dichlorotetrafluoroethane

Concen: 0.458 ppbv

RT: 3.17 min Scan# 119

Delta R.T. 0.00 min

Lab File: VL034320.D

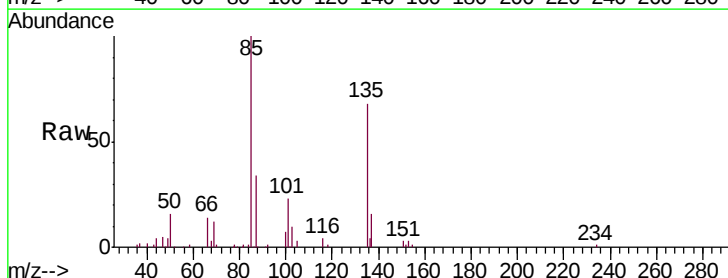
Acq: 17 Oct 2019 17:23

Tgt Ion: 85 Resp: 68457

Ion Ratio Lower Upper

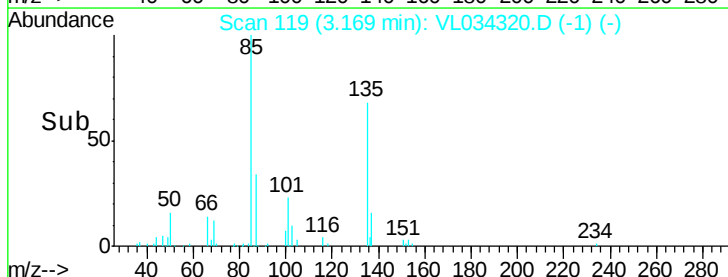
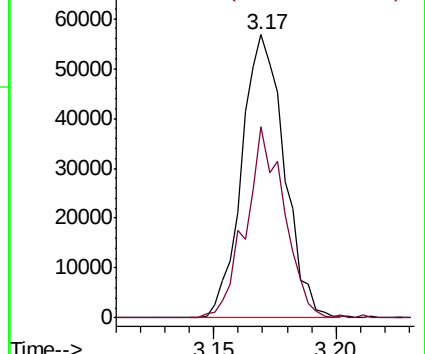
85 100

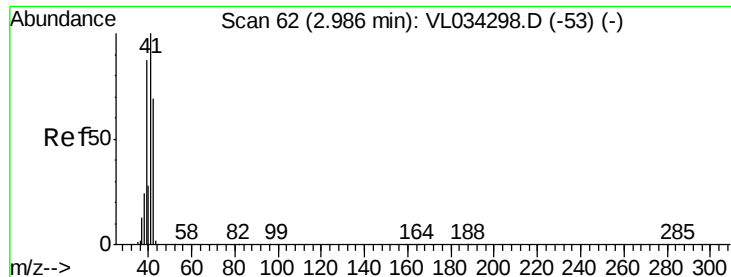
135 61.6 50.2 75.2



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 135.00 (134.70 to 135.70): V





#9

Propene

Concen: 0.382 ppbv

RT: 2.99 min Scan# 63

Delta R.T. 0.00 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

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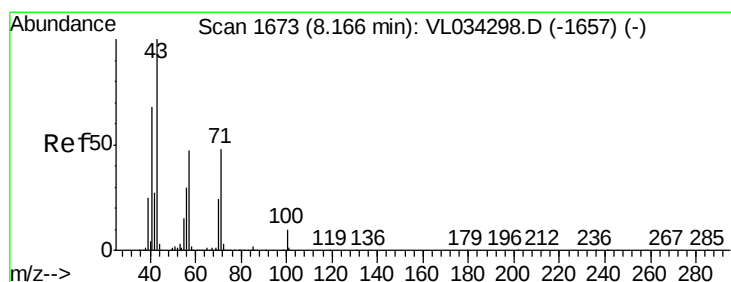
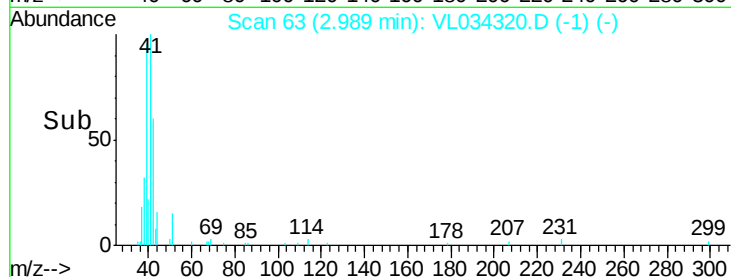
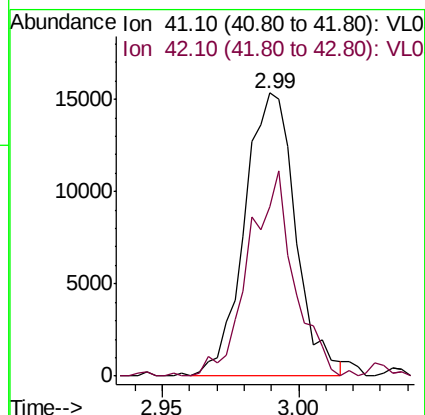
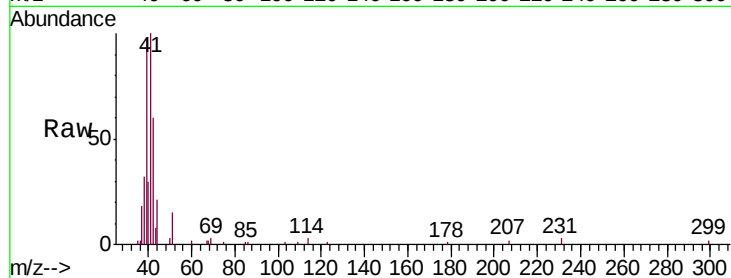
MDL-MDL-AIR-03-QT4-2019DL

Tgt Ion: 41 Resp: 19868

Ion Ratio Lower Upper

41 100

42 65.1 53.9 80.9



#10

Heptane

Concen: 0.348 ppbv

RT: 8.17 min Scan# 1675

Delta R.T. 0.01 min

Lab File: VL034320.D

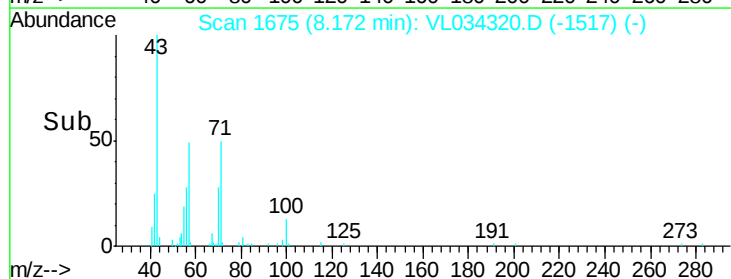
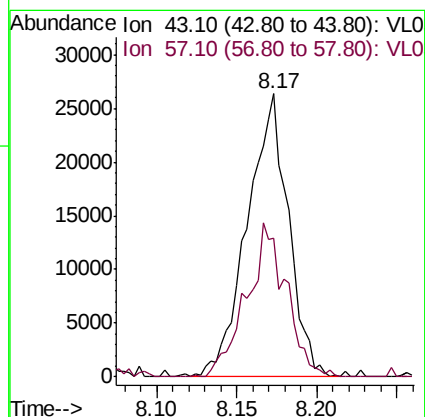
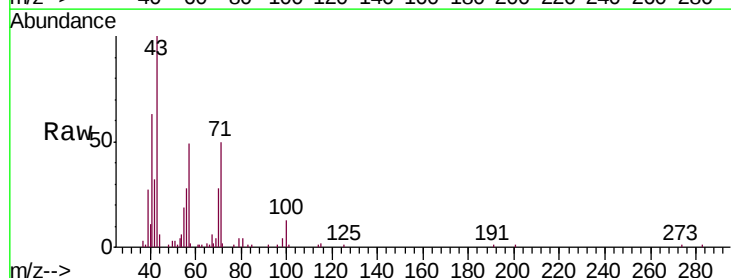
Acq: 17 Oct 2019 17:23

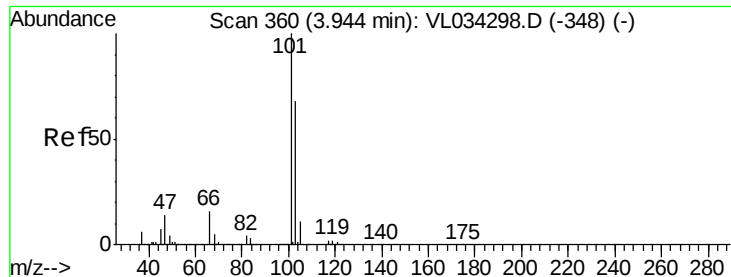
Tgt Ion: 43 Resp: 46438

Ion Ratio Lower Upper

43 100

57 52.8 39.5 59.3

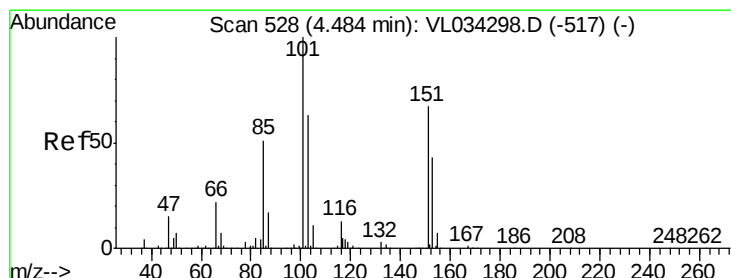
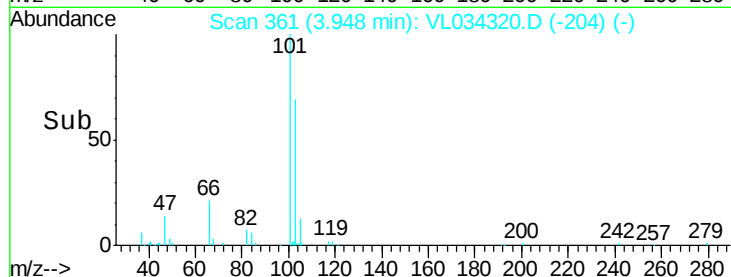
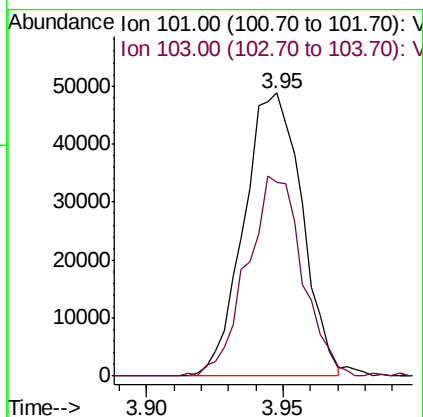
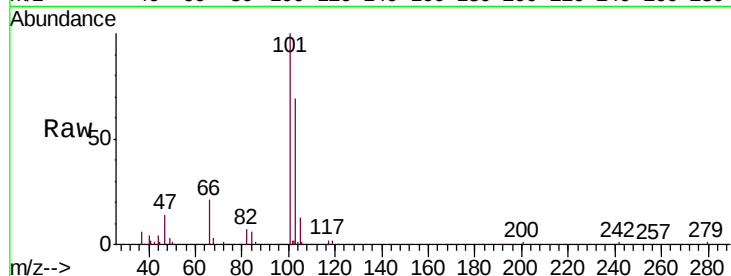




#11
 Trichlorofluoromethane
 Concen: 0.440 ppbv
 RT: 3.95 min Scan# 361
 Delta R.T. 0.00 min
 Lab File: VL034320.D
 Acq: 17 Oct 2019 17:23

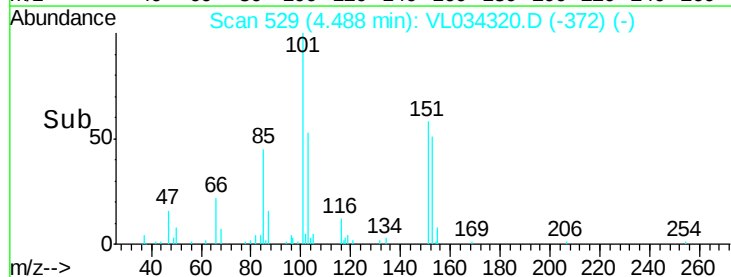
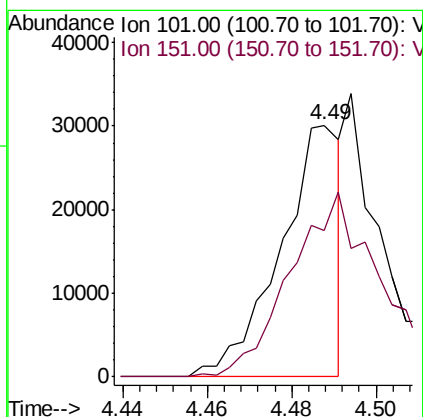
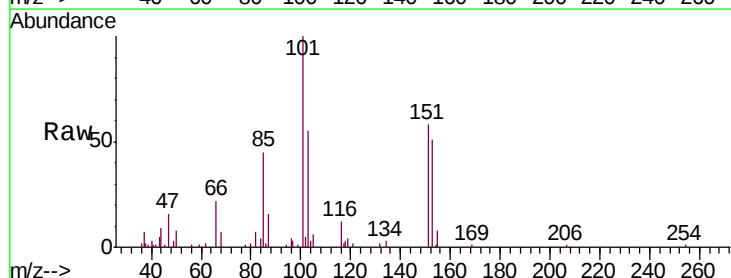
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT4-2019DL

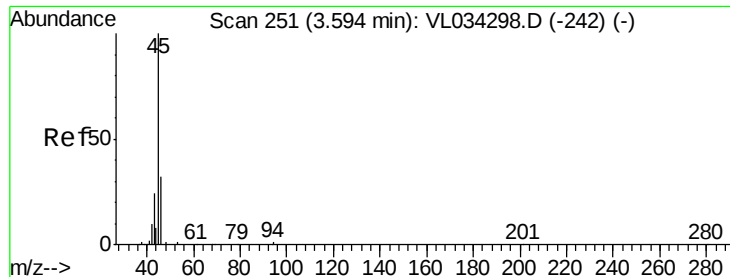
Tgt Ion:101 Resp: 71994
 Ion Ratio Lower Upper
 101 100
 103 67.8 54.5 81.7



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.279 ppbv
 RT: 4.49 min Scan# 529
 Delta R.T. 0.00 min
 Lab File: VL034320.D
 Acq: 17 Oct 2019 17:23

Tgt Ion:101 Resp: 29900
 Ion Ratio Lower Upper
 101 100
 151 0.0 57.4 86.2#





#13

Ethanol

Concen: 0.545 ppbv

RT: 3.61 min Scan# 256

Delta R.T. 0.02 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

Instrument :

MSVOA_L

ClientSampleId :

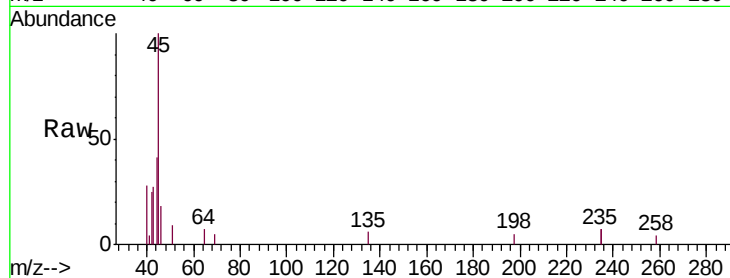
MDL-MDL-AIR-03-QT4-2019DL

Tgt Ion: 45 Resp: 6348

Ion Ratio Lower Upper

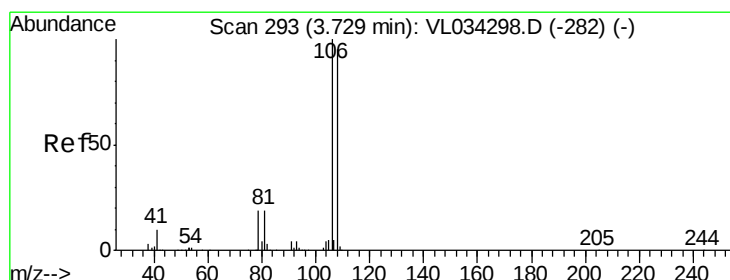
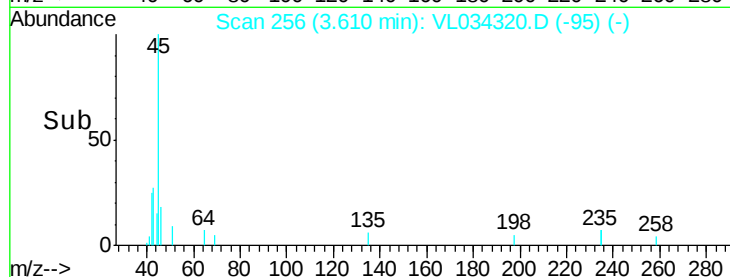
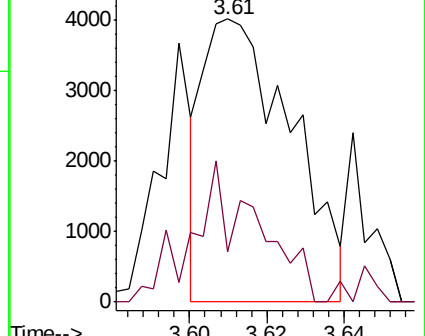
45 100

46 37.9 15.8 63.2



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0



#14

Bromoethene

Concen: 0.132 ppbv

RT: 3.74 min Scan# 296

Delta R.T. 0.01 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

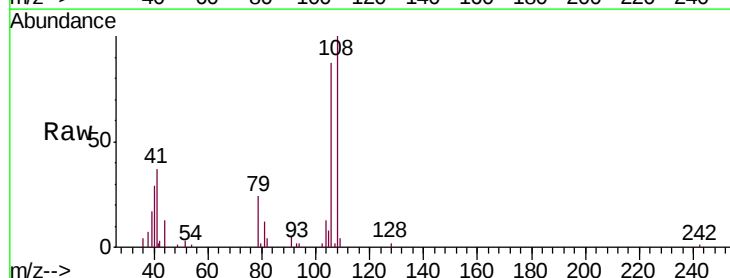
Tgt Ion: 108 Resp: 5561

Ion Ratio Lower Upper

108 100

106 0.0 84.8 127.2#

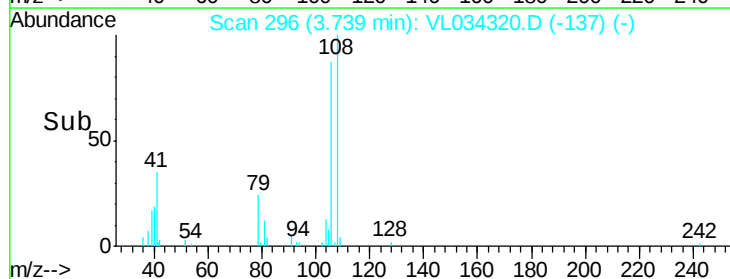
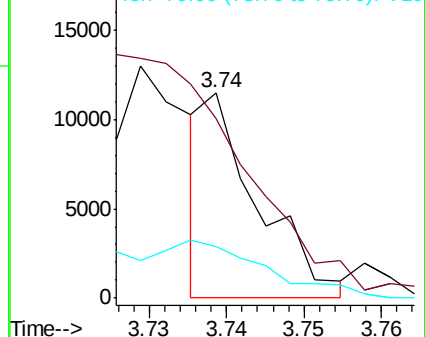
79 87.1 17.0 25.4#

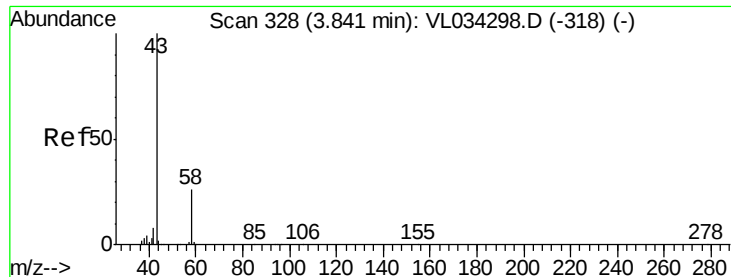


Abundance Ion 108.00 (107.70 to 108.70): V

Ion 106.00 (105.70 to 106.70): V

Ion 79.00 (78.70 to 79.70): VL0

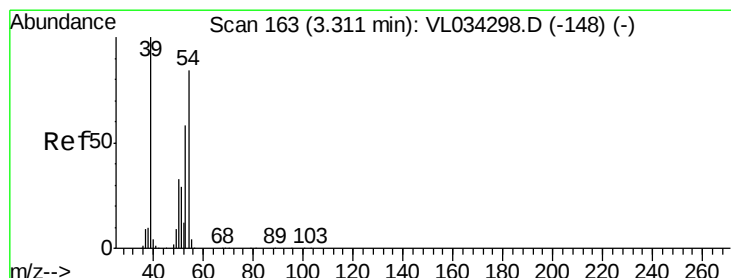
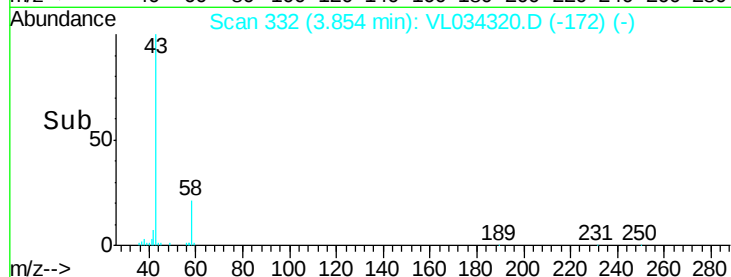
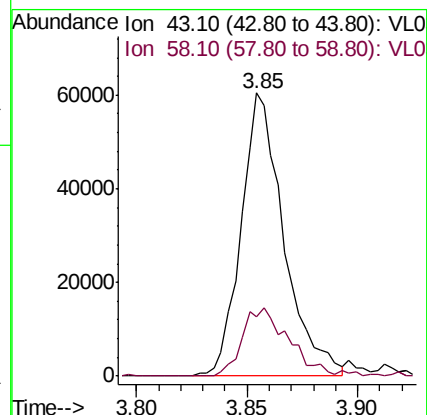
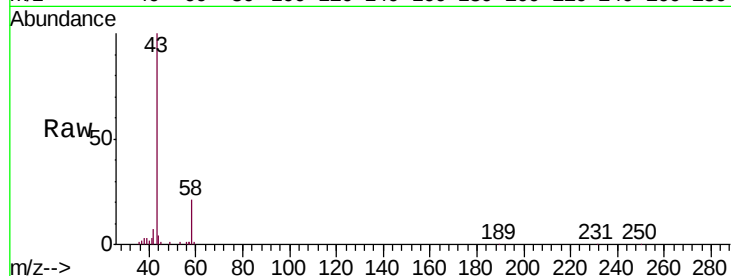




#15
Acetone
Concen: 0.569 ppbv
RT: 3.85 min Scan# 332
Delta R.T. 0.01 min
Lab File: VL034320.D
Acq: 17 Oct 2019 17:23

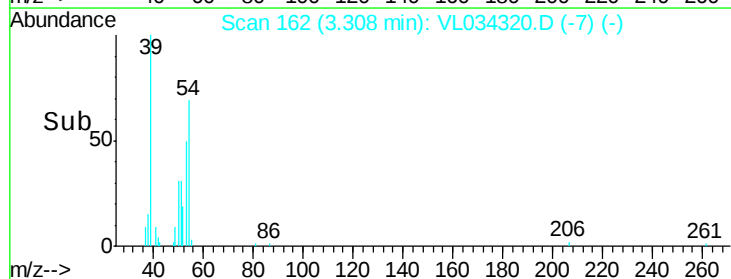
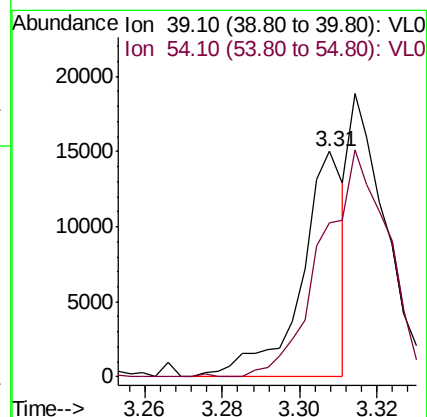
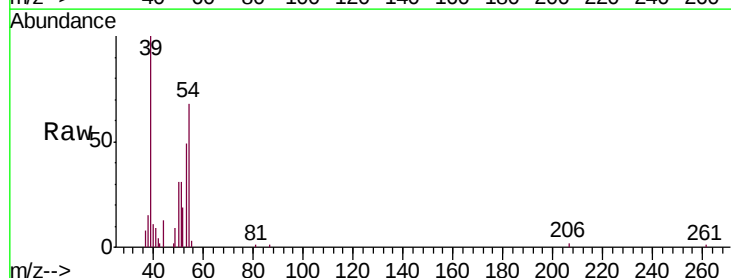
Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT4-2019DL

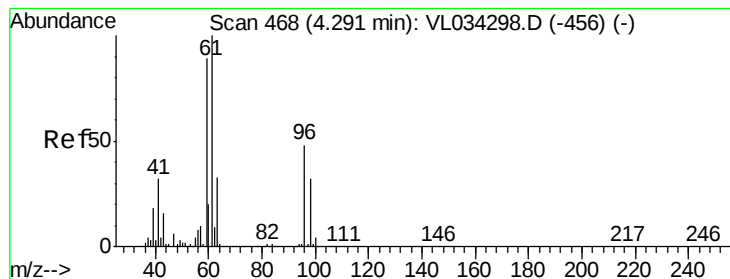
Tgt Ion: 43 Resp: 81445
Ion Ratio Lower Upper
43 100
58 27.3 20.4 30.6



#16
1,3-Butadiene
Concen: 0.200 ppbv
RT: 3.31 min Scan# 162
Delta R.T. -0.00 min
Lab File: VL034320.D
Acq: 17 Oct 2019 17:23

Tgt Ion: 39 Resp: 11628
Ion Ratio Lower Upper
39 100
54 0.0 63.9 95.9#





#17

tert-Butyl alcohol

Concen: 0.501 ppbv

RT: 4.31 min Scan# 474

Delta R.T. 0.02 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

Instrument :

MSVOA_L

ClientSampleId :

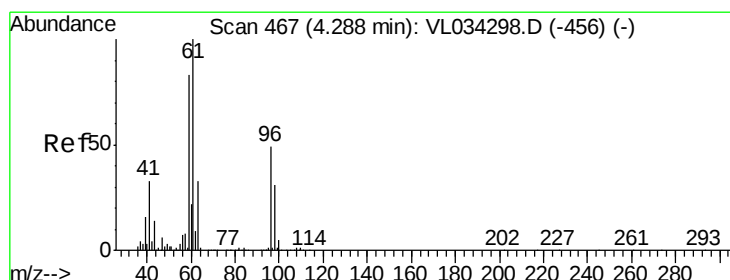
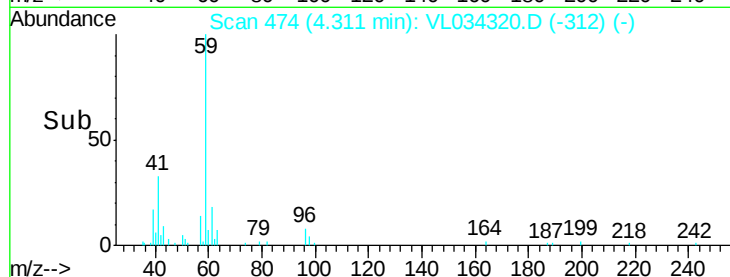
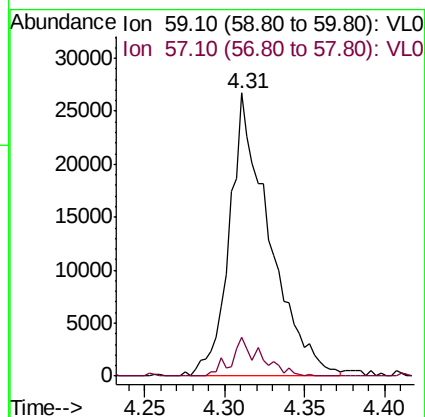
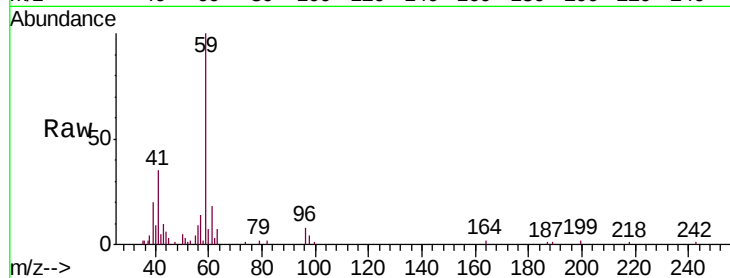
MDL-MDL-AIR-03-QT4-2019DL

Tgt Ion: 59 Resp: 45748

Ion Ratio Lower Upper

59 100

57 10.0 8.8 13.2



#18

1,1-Dichloroethene

Concen: 0.391 ppbv

RT: 4.29 min Scan# 468

Delta R.T. 0.00 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

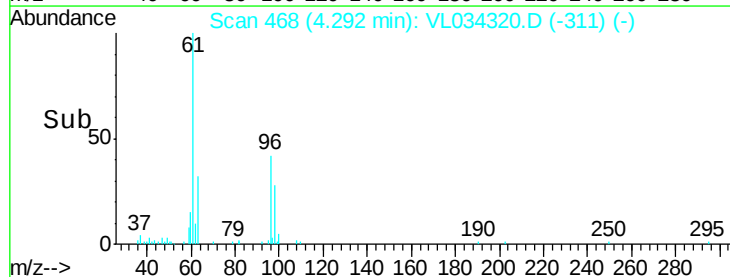
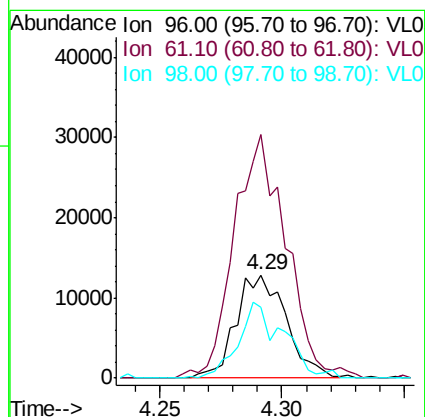
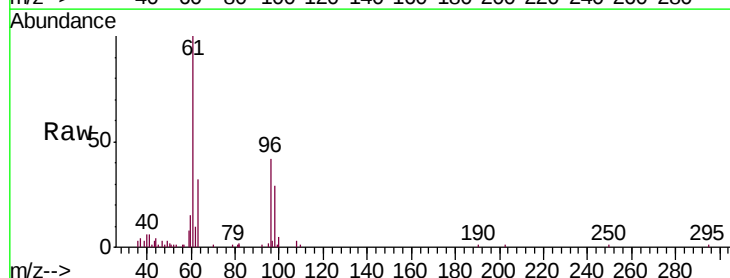
Tgt Ion: 96 Resp: 18375

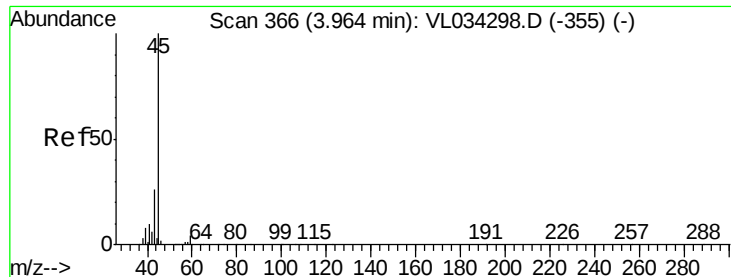
Ion Ratio Lower Upper

96 100

61 228.2 164.5 246.7

98 69.1 51.7 77.5





#19

Isopropyl Alcohol

Concen: 0.426 ppbv

RT: 3.99 min Scan# 373

Delta R.T. 0.02 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

Instrument :

MSVOA_L

ClientSampleId :

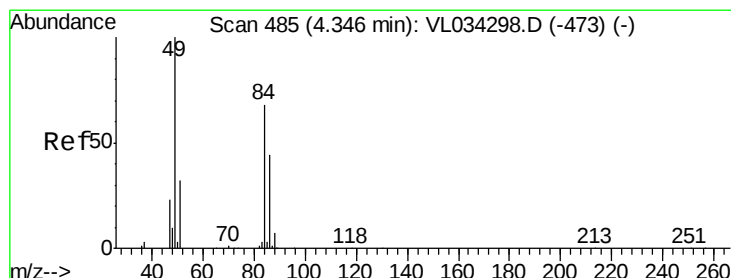
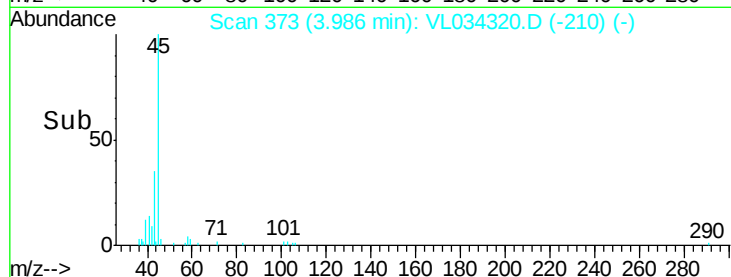
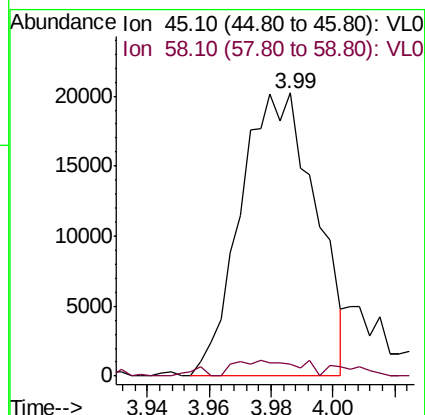
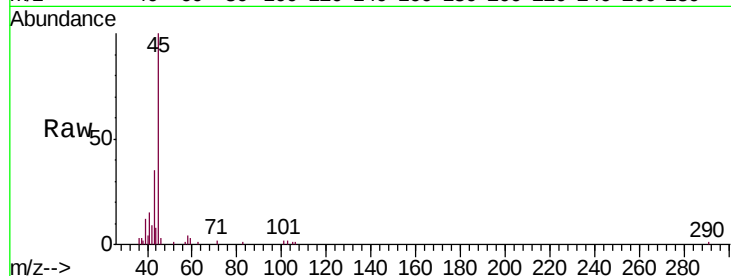
MDL-MDL-AIR-03-QT4-2019DL

Tgt Ion: 45 Resp: 33971

Ion Ratio Lower Upper

45 100

58 7.5 1.4 2.2#



#20

Methylene Chloride

Concen: 0.426 ppbv

RT: 4.35 min Scan# 485

Delta R.T. 0.00 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

Tgt Ion: 84 Resp: 22050

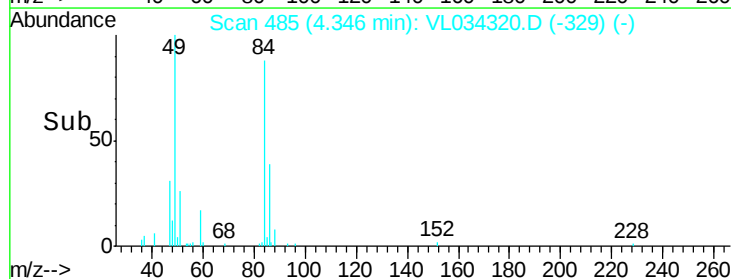
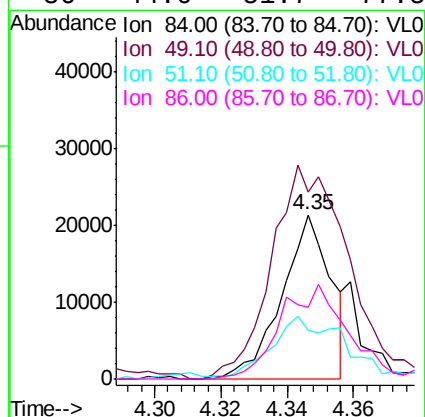
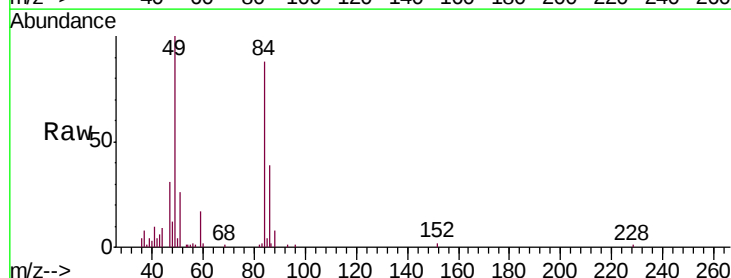
Ion Ratio Lower Upper

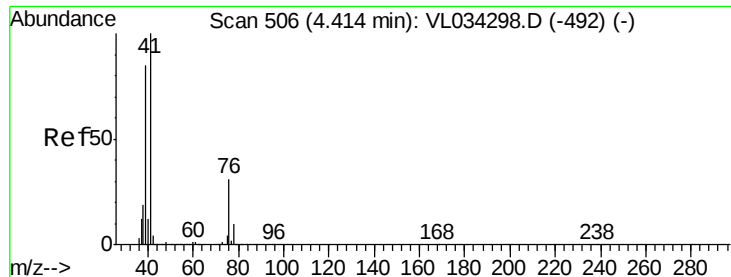
84 100

49 113.9 118.5 177.7#

51 25.9 38.8 58.2#

86 44.0 51.7 77.5#





#21

Allyl Chloride

Concen: 0.377 ppbv

RT: 4.42 min Scan# 507

Delta R.T. 0.00 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

Instrument :

MSVOA_L

ClientSampleId :

MDL-MDL-AIR-03-QT4-2019DL

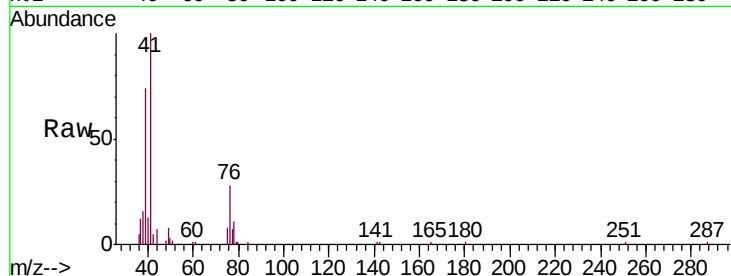
Tgt Ion: 41 Resp: 29812

Ion Ratio Lower Upper

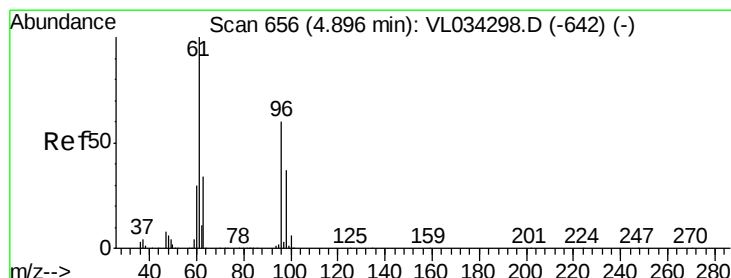
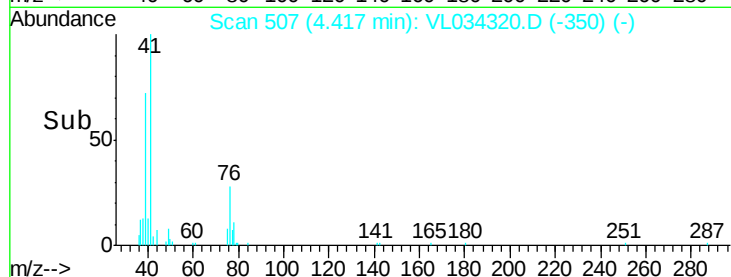
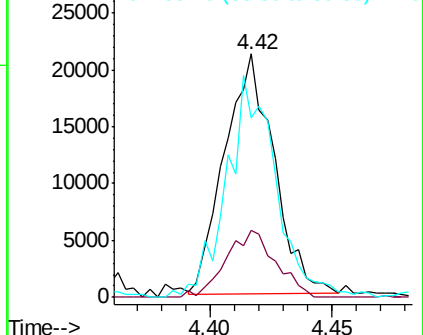
41 100

76 28.0 22.8 34.2

39 92.6 66.0 99.0



Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0



#22

trans-1,2-Dichloroethene

Concen: 0.219 ppbv

RT: 4.89 min Scan# 655

Delta R.T. -0.00 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

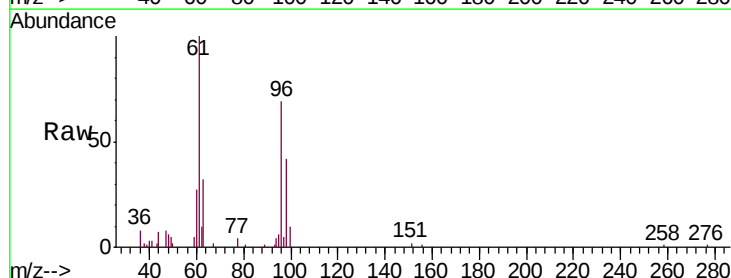
Tgt Ion: 96 Resp: 10271

Ion Ratio Lower Upper

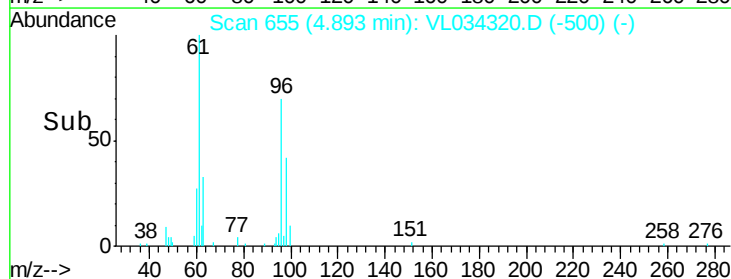
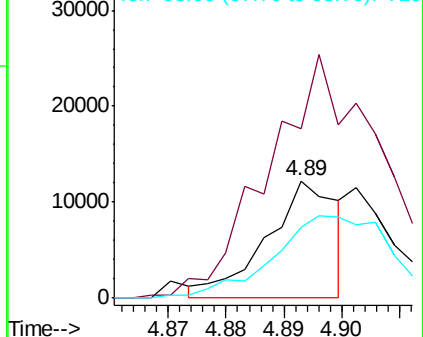
96 100

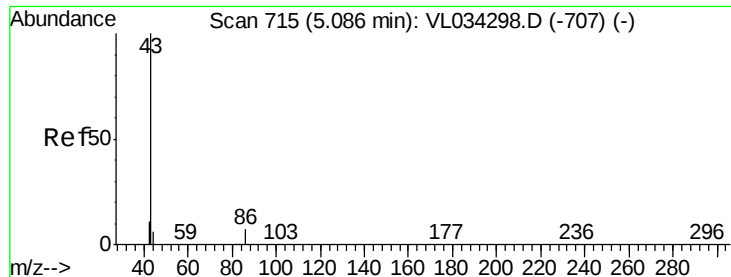
61 142.6 133.8 200.6

98 64.8 49.4 74.0



Abundance Ion 96.00 (95.70 to 96.70): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 0.337 ppbv

RT: 5.09 min Scan# 717

Delta R.T. 0.01 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

Instrument :

MSVOA_L

ClientSampleId :

MDL-MDL-AIR-03-QT4-2019DL

Tgt Ion: 43 Resp: 60195

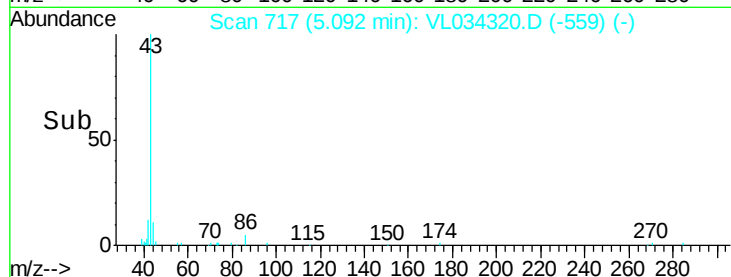
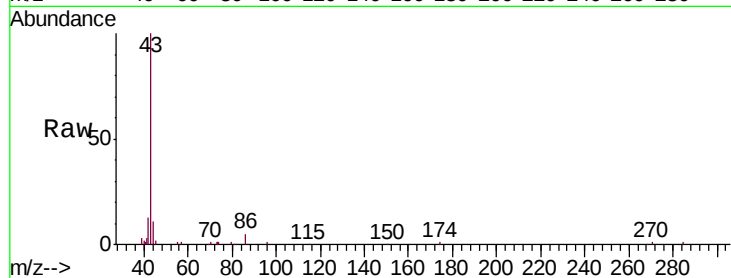
Ion Ratio Lower Upper

43 100

86 5.0 5.0 7.4

42 11.4 8.6 13.0

44 8.1 4.8 7.2#

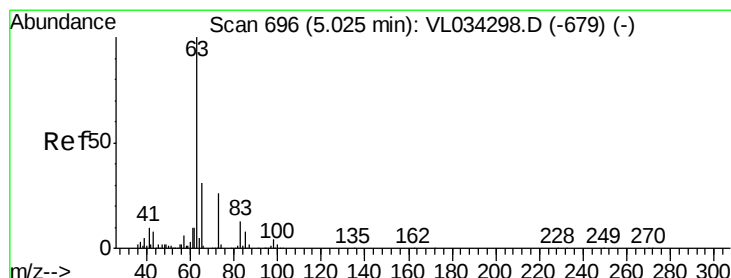
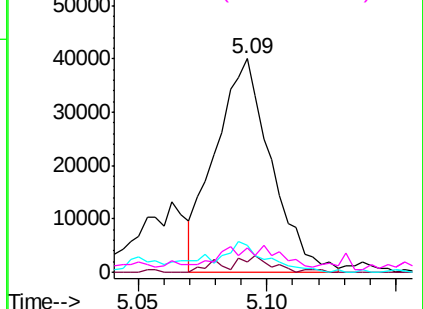


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#24

1,1-Dichloroethane

Concen: 0.415 ppbv

RT: 5.02 min Scan# 696

Delta R.T. 0.00 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

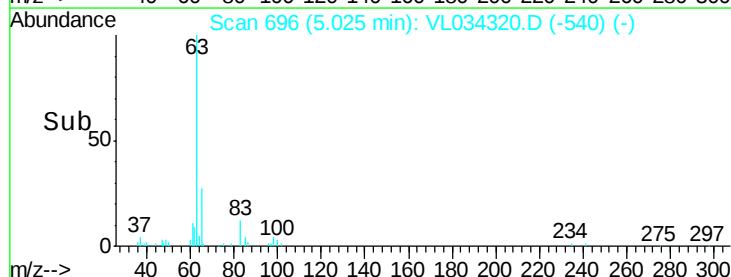
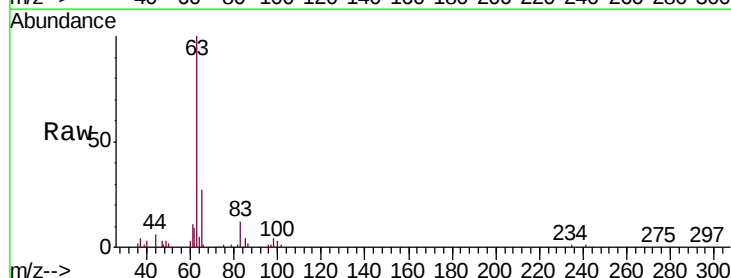
Tgt Ion: 63 Resp: 54981

Ion Ratio Lower Upper

63 100

98 3.7 2.0 6.0

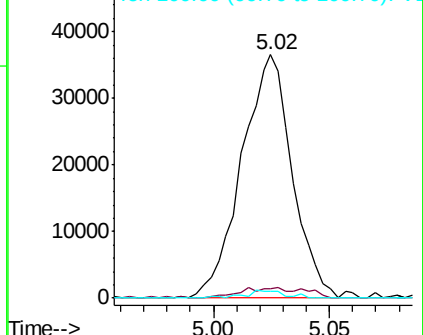
100 2.6 1.1 3.5

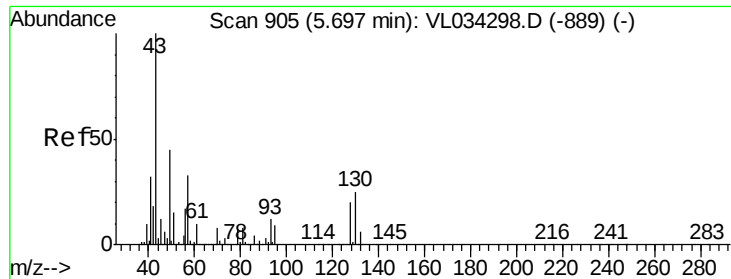


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

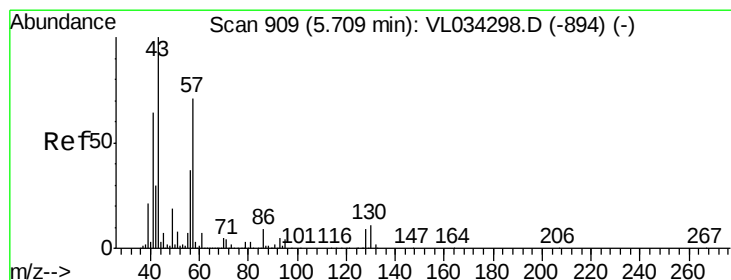
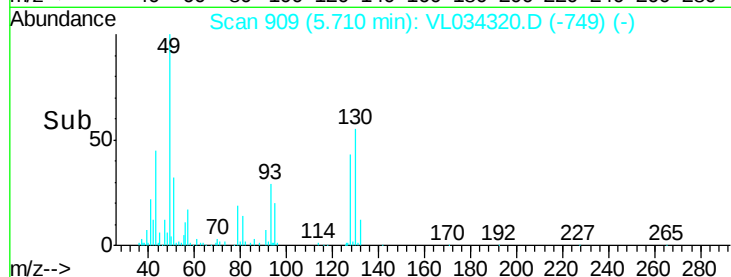
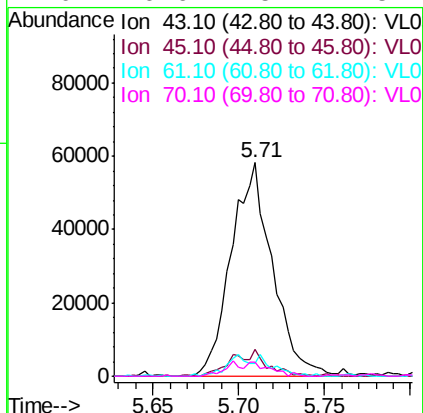
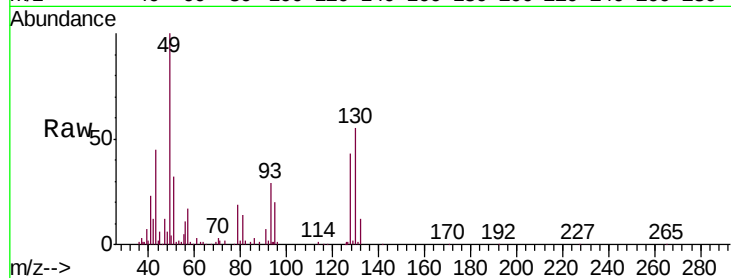




#25
Ethyl Acetate
Concen: 0.403 ppbv
RT: 5.71 min Scan# 909
Delta R.T. 0.01 min
Lab File: VL034320.D
Acq: 17 Oct 2019 17:23

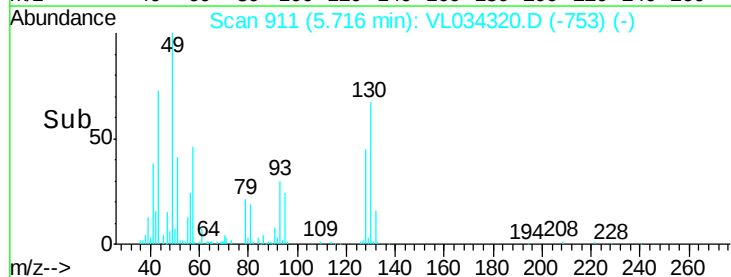
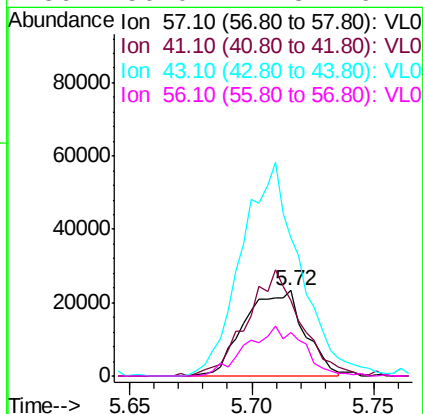
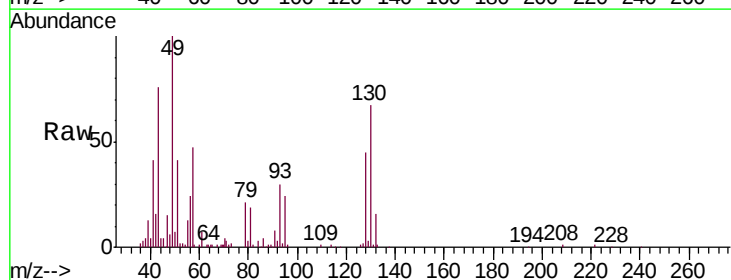
Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT4-2019DL

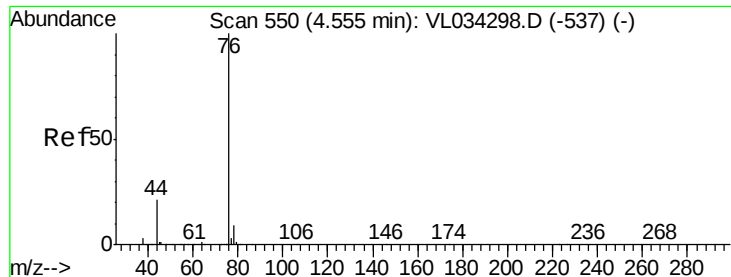
Tgt Ion:	43	Resp:	97379
Ion	Ratio	Lower	Upper
43	100		
45	11.0	8.3	12.5
61	10.1	7.7	11.5
70	6.6	5.4	8.2



#26
Hexane
Concen: 0.384 ppbv
RT: 5.72 min Scan# 911
Delta R.T. 0.01 min
Lab File: VL034320.D
Acq: 17 Oct 2019 17:23

Tgt Ion:	57	Resp:	39543
Ion	Ratio	Lower	Upper
57	100		
41	112.3	76.5	114.7
43	247.8	188.5	282.7
56	56.0	42.8	64.2





#27

Carbon Disulfide

Concen: 0.252 ppbv

RT: 4.56 min Scan# 551

Delta R.T. 0.00 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

Instrument :

MSVOA_L

ClientSampleId :

MDL-MDL-AIR-03-QT4-2019DL

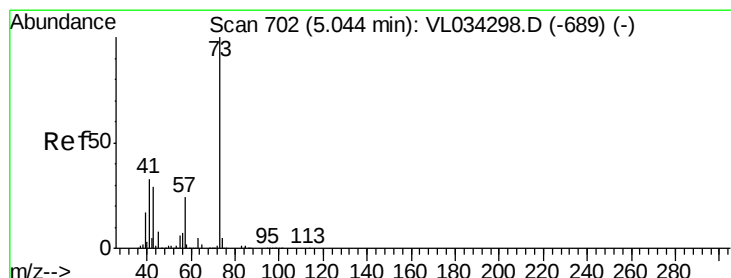
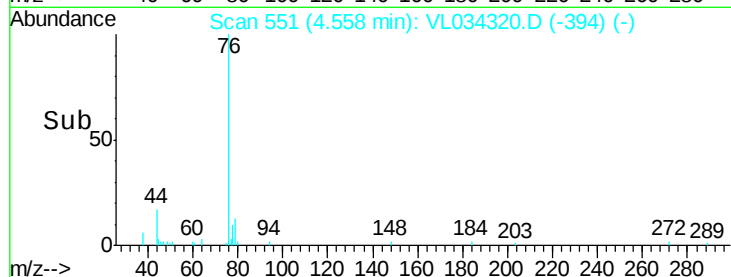
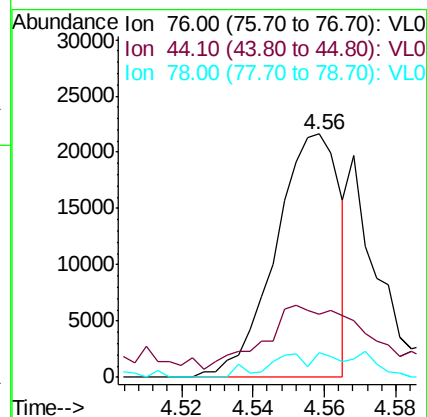
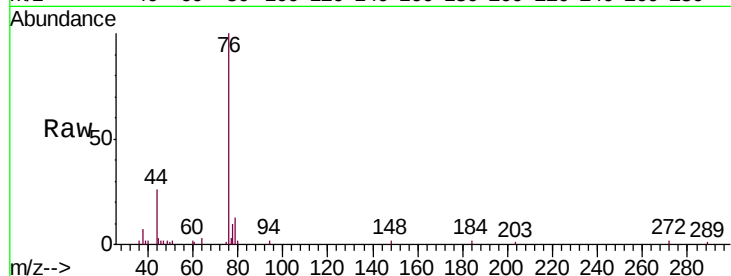
Tgt Ion: 76 Resp: 26903

Ion Ratio Lower Upper

76 100

44 51.1 17.3 25.9#

78 0.0 7.8 11.6#



#28

Methyl tert-Butyl Ether

Concen: 0.207 ppbv

RT: 5.06 min Scan# 706

Delta R.T. 0.01 min

Lab File: VL034320.D

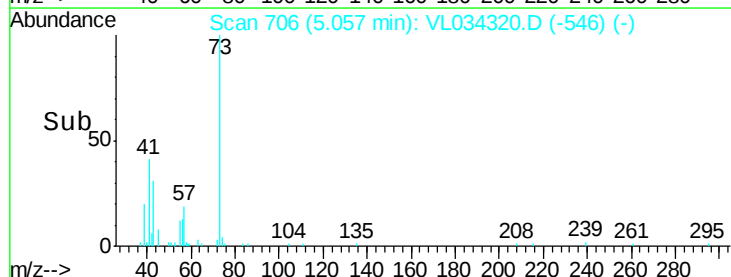
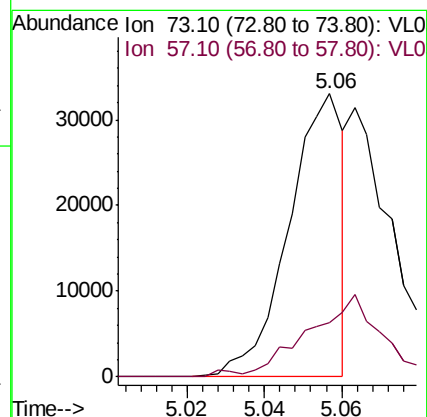
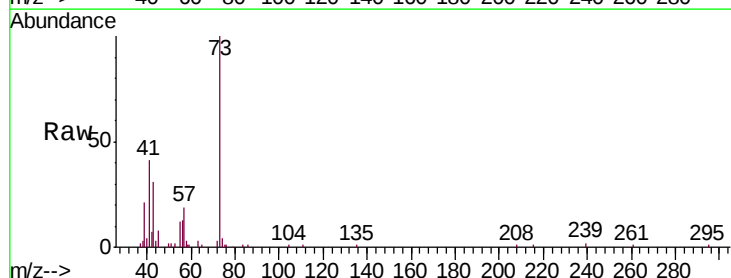
Acq: 17 Oct 2019 17:23

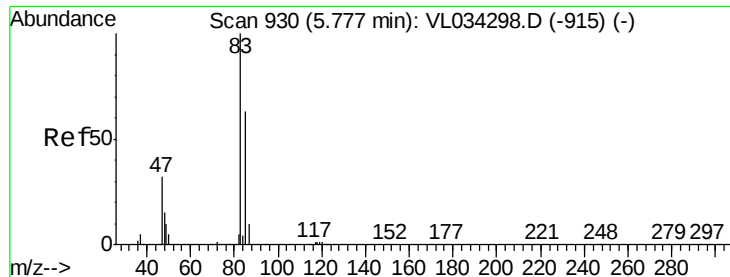
Tgt Ion: 73 Resp: 32301

Ion Ratio Lower Upper

73 100

57 0.0 19.2 28.8#

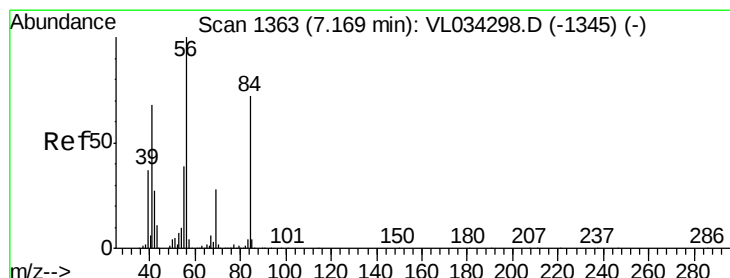
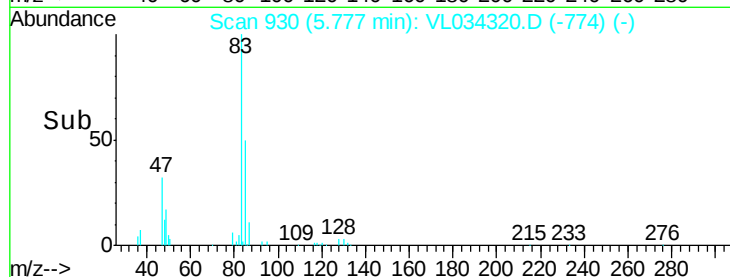
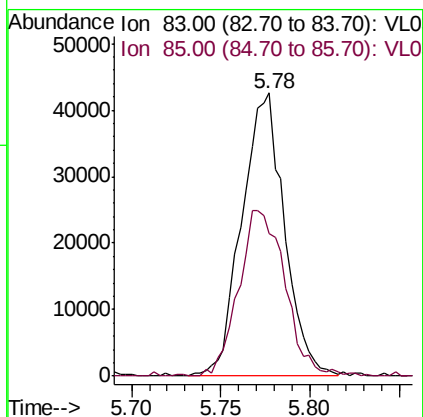
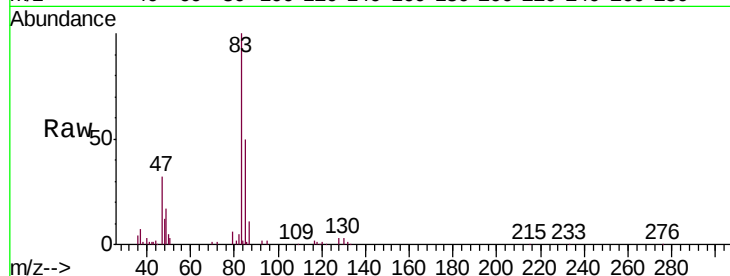




#29
Chloroform
Concen: 0.436 ppbv
RT: 5.78 min Scan# 930
Delta R.T. 0.00 min
Lab File: VL034320.D
Acq: 17 Oct 2019 17:23

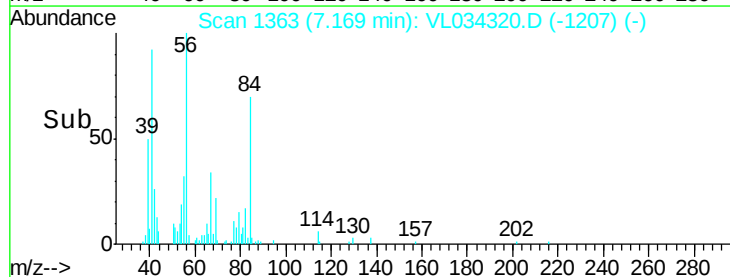
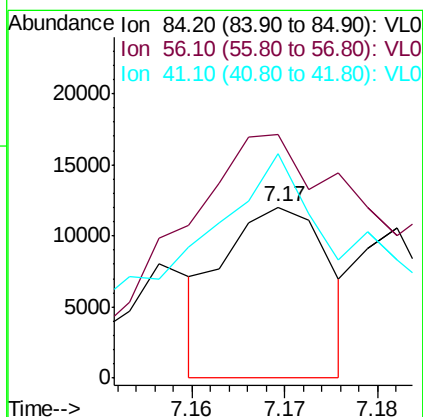
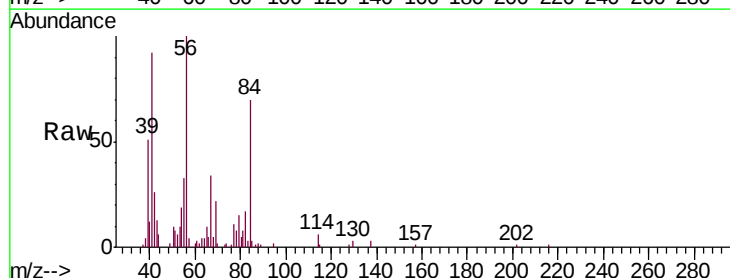
Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT4-2019DL

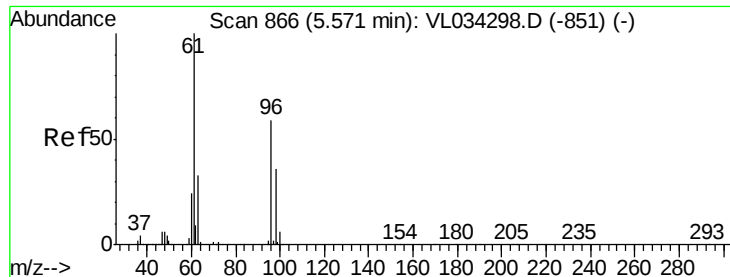
Tgt Ion: 83 Resp: 71089
Ion Ratio Lower Upper
83 100
85 50.2 50.5 75.7#



#30
Cyclohexane
Concen: 0.124 ppbv
RT: 7.17 min Scan# 1363
Delta R.T. 0.00 min
Lab File: VL034320.D
Acq: 17 Oct 2019 17:23

Tgt Ion: 84 Resp: 9375
Ion Ratio Lower Upper
84 100
56 303.9 119.4 179.0#
41 285.1 78.7 118.1#



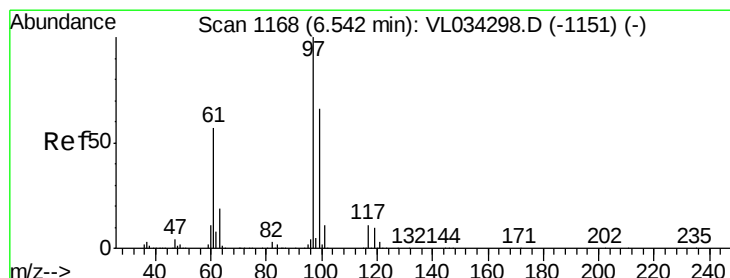
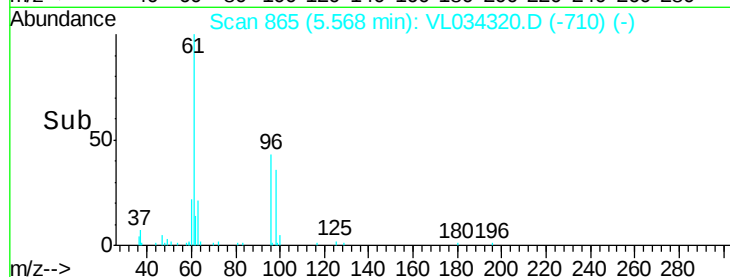
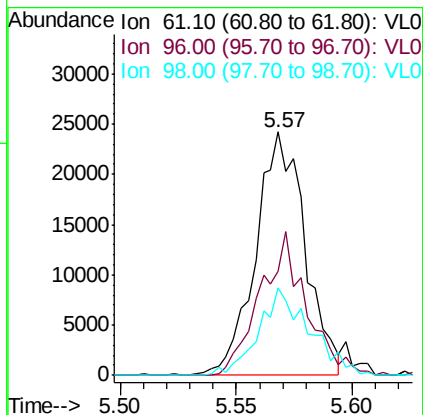
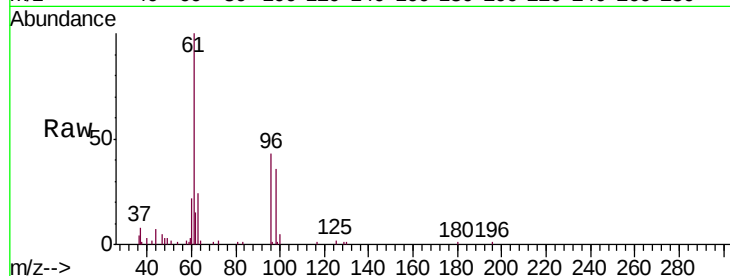


#31

cis-1,2-Dichloroethene
Concen: 0.343 ppbv
RT: 5.57 min Scan# 865
Delta R.T. -0.00 min
Lab File: VL034320.D
Acq: 17 Oct 2019 17:23

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT4-2019DL

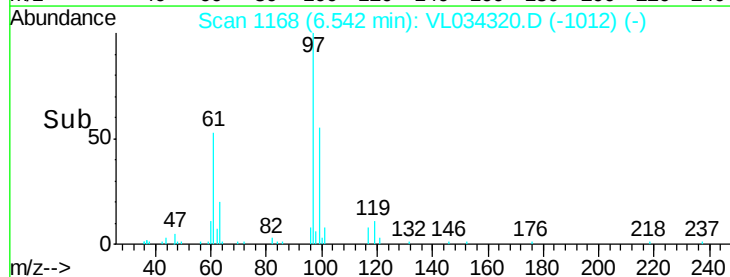
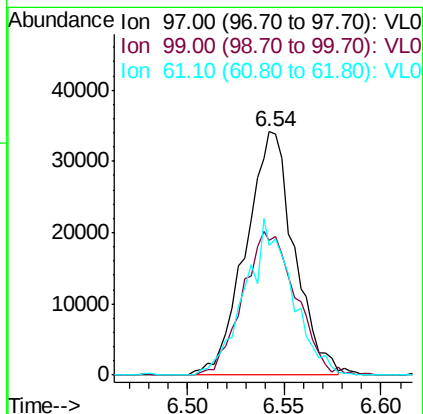
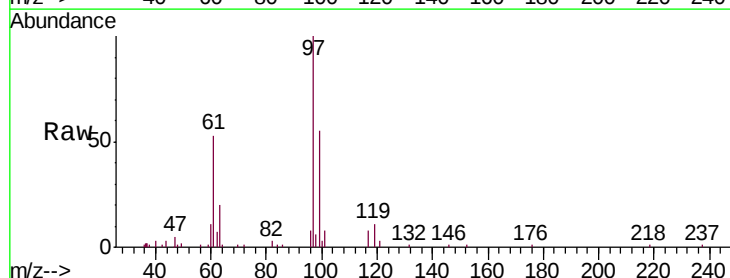
Tgt Ion	Ratio	Lower	Upper
61	100		
96	43.8	47.5	71.3#
98	36.2	28.8	43.2

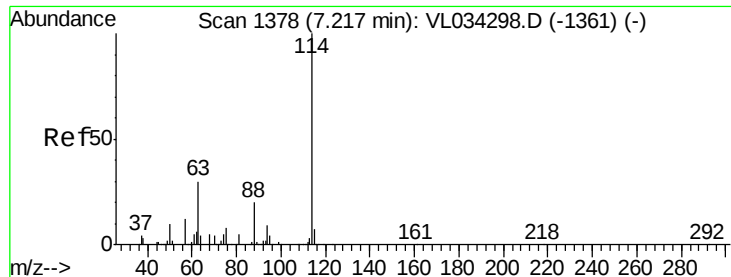


#32

1,1,1-Trichloroethane
Concen: 0.378 ppbv
RT: 6.54 min Scan# 1168
Delta R.T. 0.00 min
Lab File: VL034320.D
Acq: 17 Oct 2019 17:23

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.7	52.6	78.8
61	62.1	44.5	66.7

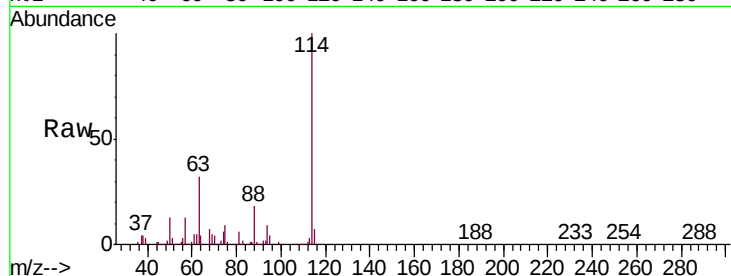




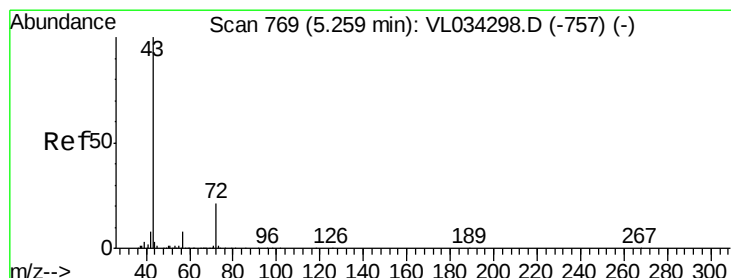
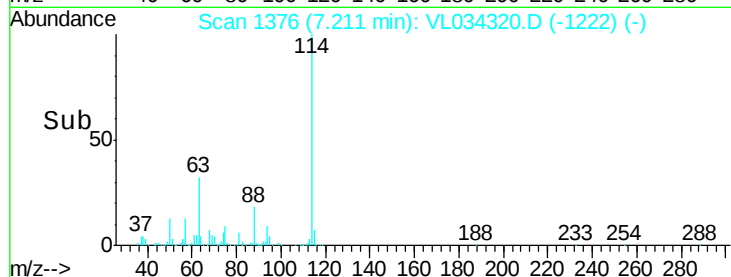
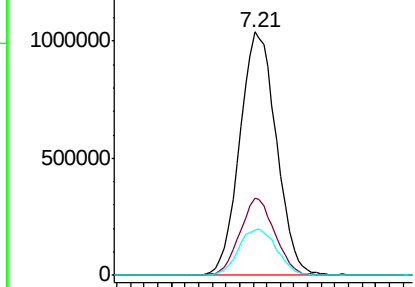
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.21 min Scan# 1376
 Delta R.T. -0.01 min
 Lab File: VL034320.D
 Acq: 17 Oct 2019 17:23

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT4-2019DL

Tgt Ion:114 Resp: 1936764
 Ion Ratio Lower Upper
 114 100
 63 30.4 25.2 37.8
 88 19.9 16.0 24.0

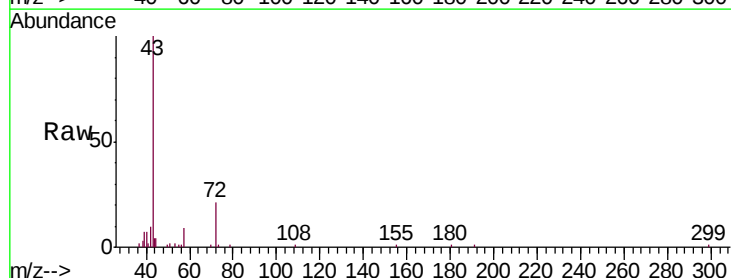


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

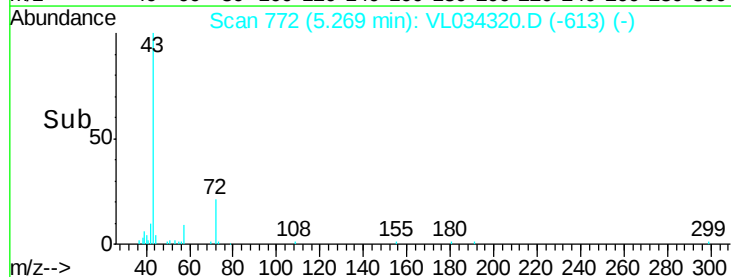
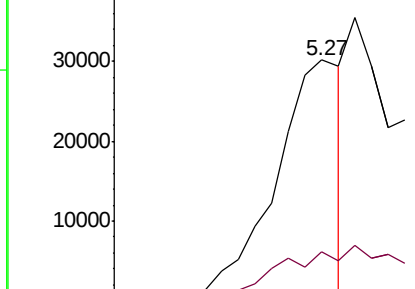


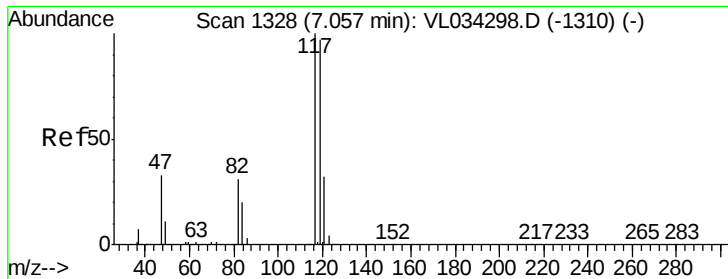
#34
 2-Butanone
 Concen: 0.169 ppbv
 RT: 5.27 min Scan# 772
 Delta R.T. 0.01 min
 Lab File: VL034320.D
 Acq: 17 Oct 2019 17:23

Tgt Ion: 43 Resp: 26782
 Ion Ratio Lower Upper
 43 100
 72 0.0 16.3 24.5#



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.367 ppbv

RT: 7.06 min Scan# 1328

Delta R.T. 0.00 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

Instrument :

MSVOA_L

ClientSampleId :

MDL-MDL-AIR-03-QT4-2019DL

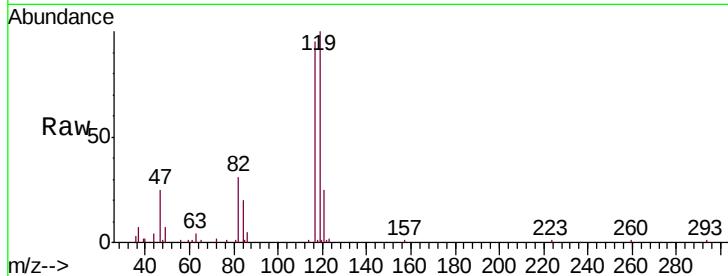
Tgt Ion: 117 Resp: 61898

Ion Ratio Lower Upper

117 100

119 105.2 77.3 115.9

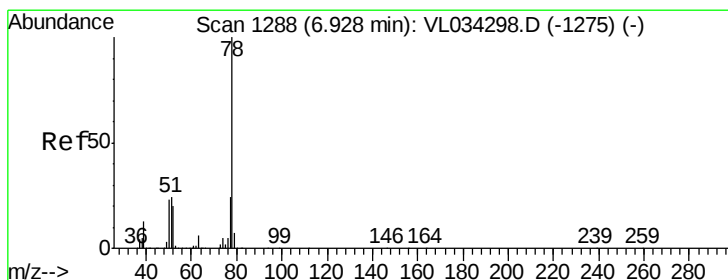
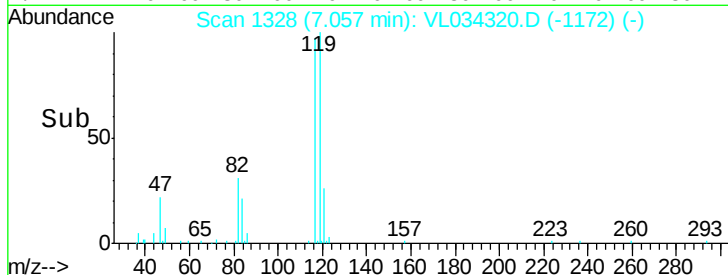
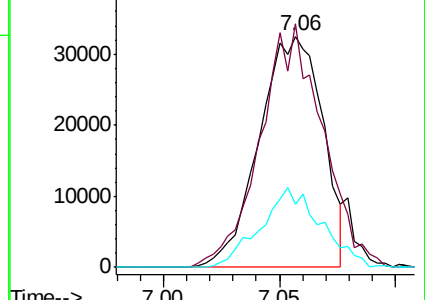
121 27.3 25.5 38.3



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.179 ppbv

RT: 6.92 min Scan# 1286

Delta R.T. -0.01 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

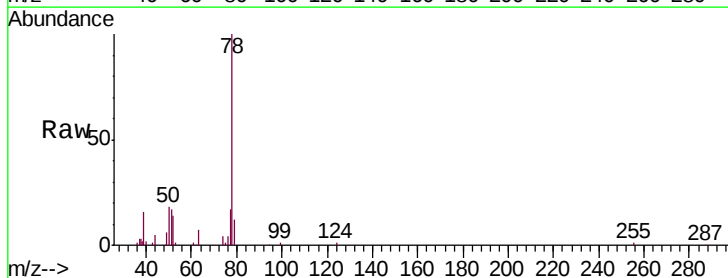
Tgt Ion: 78 Resp: 33179

Ion Ratio Lower Upper

78 100

77 16.5 19.0 28.4#

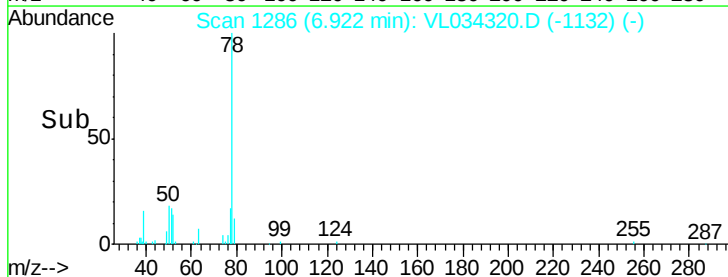
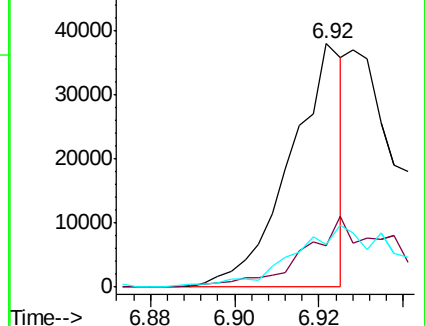
50 16.2 18.6 27.8#

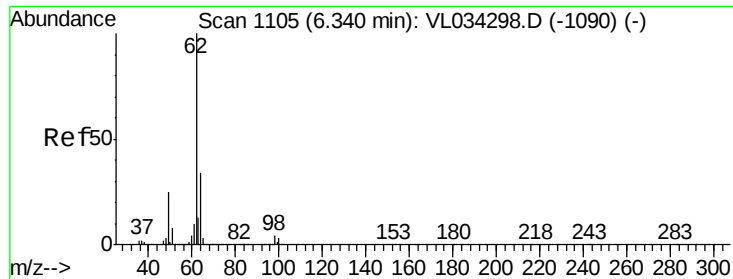


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

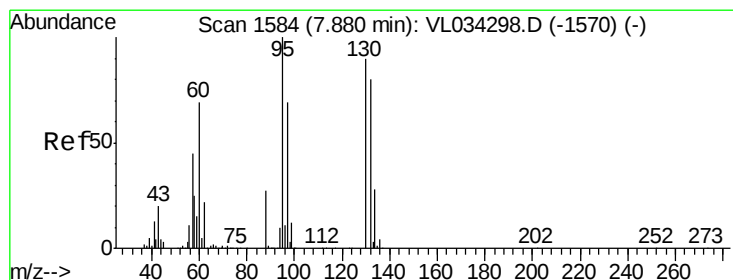
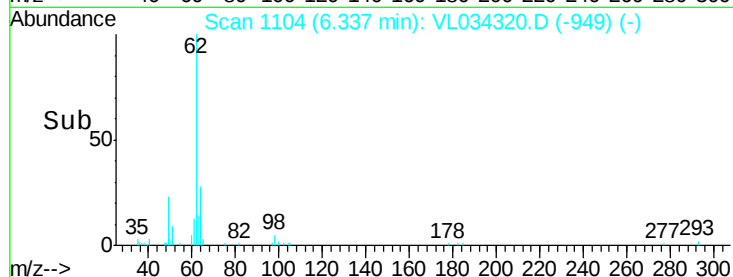
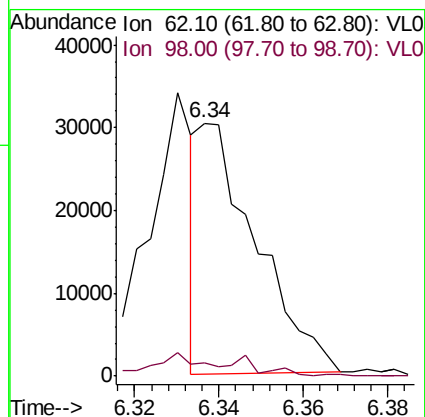
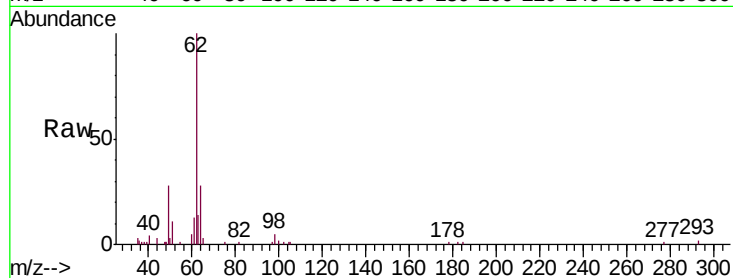




#37
 1,2-Dichloroethane
 Concen: 0.206 ppbv
 RT: 6.34 min Scan# 1104
 Delta R.T. -0.00 min
 Lab File: VL034320.D
 Acq: 17 Oct 2019 17:23

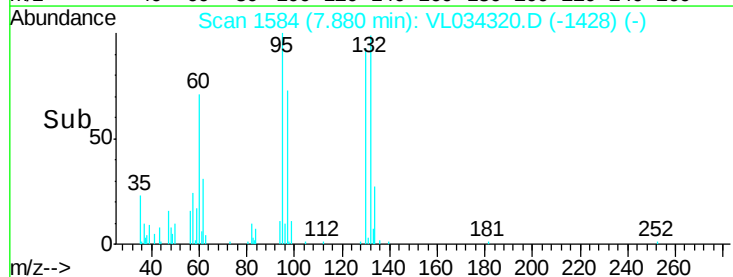
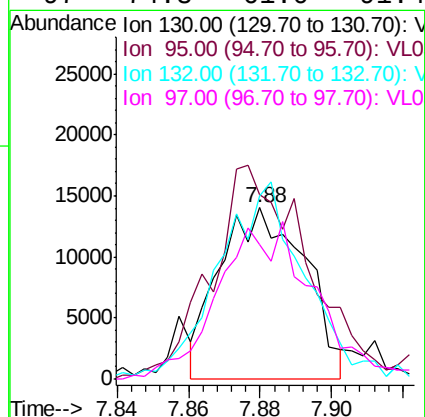
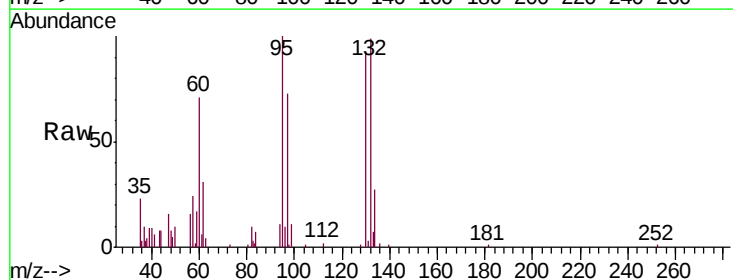
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT4-2019DL

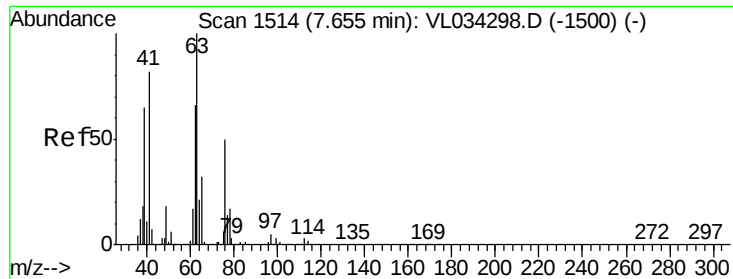
Tgt Ion: 62 Resp: 28523
 Ion Ratio Lower Upper
 62 100
 98 0.0 3.8 5.6#



#38
 Trichloroethene
 Concen: 0.313 ppbv
 RT: 7.88 min Scan# 1584
 Delta R.T. 0.00 min
 Lab File: VL034320.D
 Acq: 17 Oct 2019 17:23

Tgt Ion: 130 Resp: 23310
 Ion Ratio Lower Upper
 130 100
 95 79.7 88.6 132.8#
 132 104.1 71.2 106.8
 97 74.8 61.0 91.4

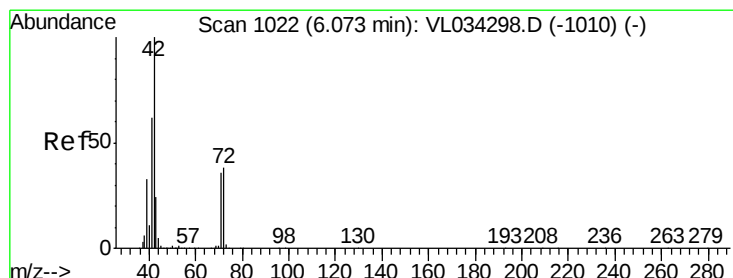
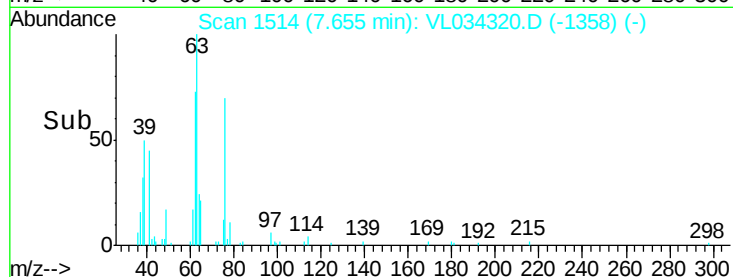
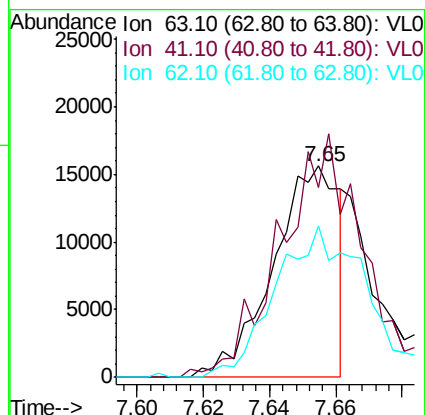
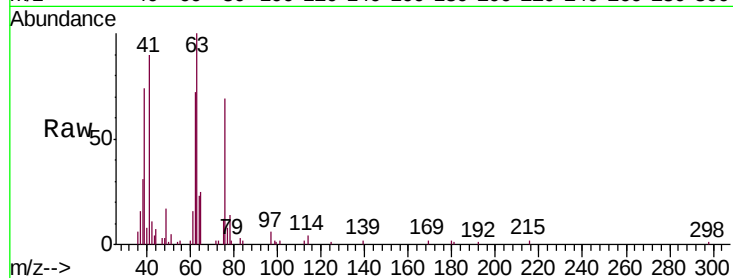




#39
 1,2-Dichloropropane
 Concen: 0.269 ppbv
 RT: 7.65 min Scan# 1514
 Delta R.T. 0.00 min
 Lab File: VL034320.D
 Acq: 17 Oct 2019 17:23

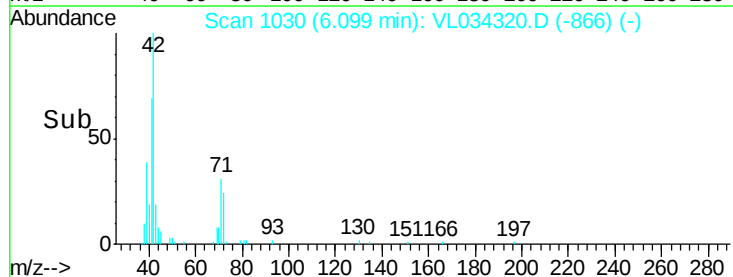
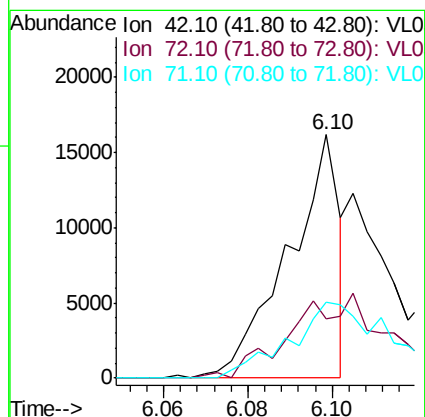
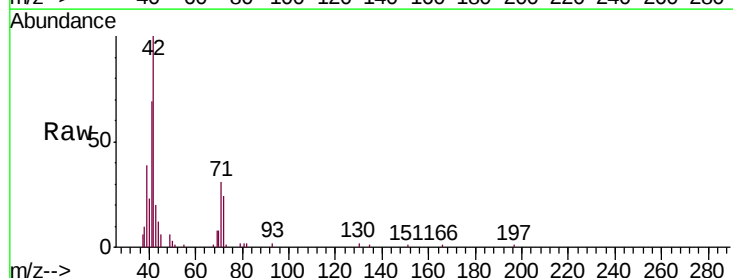
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT4-2019DL

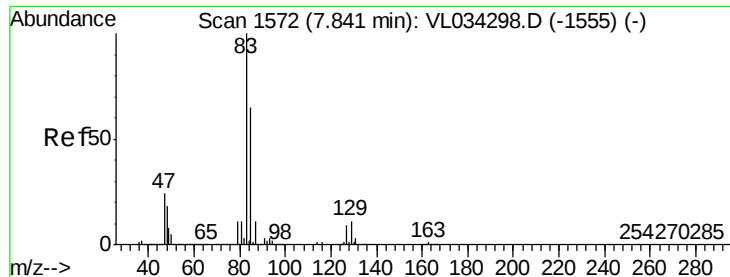
Tgt Ion:	63	Resp:	21558
Ion	Ratio	Lower	Upper
63	100		
41	86.6	65.6	98.4
62	71.7	53.0	79.6



#41
 Tetrahydrofuran
 Concen: 0.156 ppbv
 RT: 6.10 min Scan# 1030
 Delta R.T. 0.03 min
 Lab File: VL034320.D
 Acq: 17 Oct 2019 17:23

Tgt Ion:	42	Resp:	13695
Ion	Ratio	Lower	Upper
42	100		
72	0.0	28.0	42.0#
71	64.5	27.3	40.9#





#42

Bromodichloromethane

Concen: 0.409 ppbv

RT: 7.83 min Scan# 1570

Delta R.T. -0.01 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

Instrument :

MSVOA_L

ClientSampleId :

MDL-MDL-AIR-03-QT4-2019DL

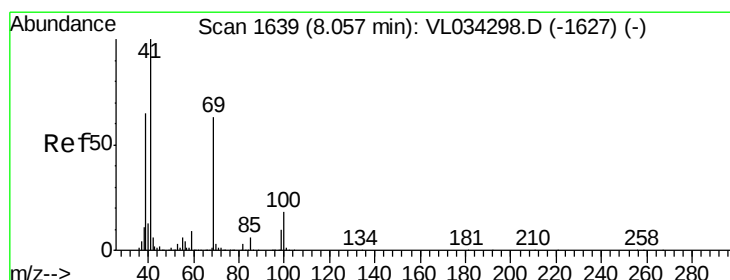
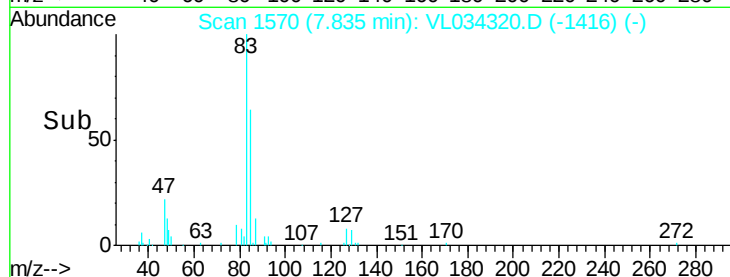
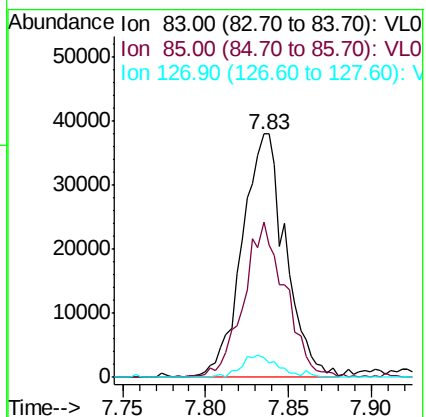
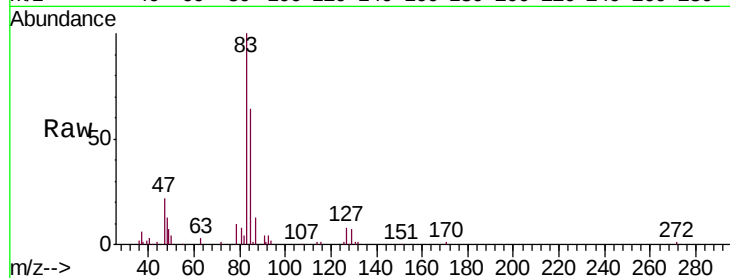
Tgt Ion: 83 Resp: 69321

Ion Ratio Lower Upper

83 100

85 63.8 51.8 77.6

127 7.8 7.0 10.6



#43

Methyl Methacrylate

Concen: 0.146 ppbv

RT: 8.06 min Scan# 1640

Delta R.T. 0.00 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

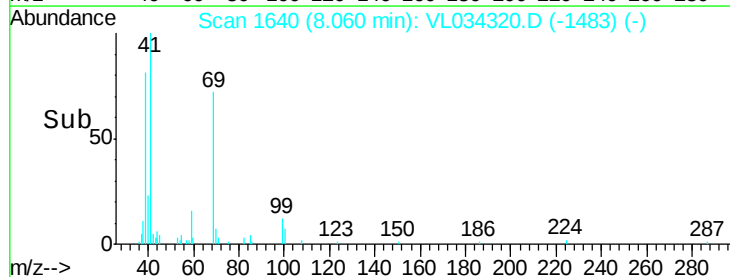
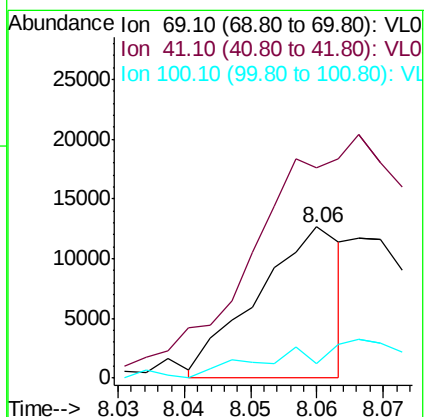
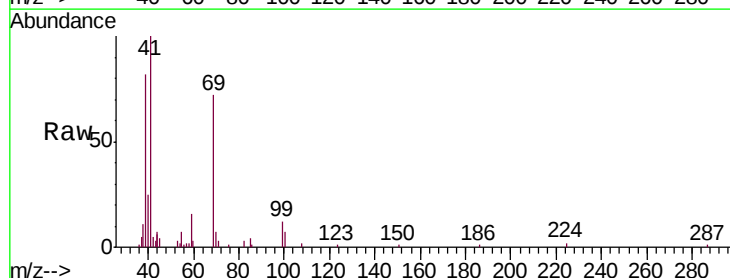
Tgt Ion: 69 Resp: 11191

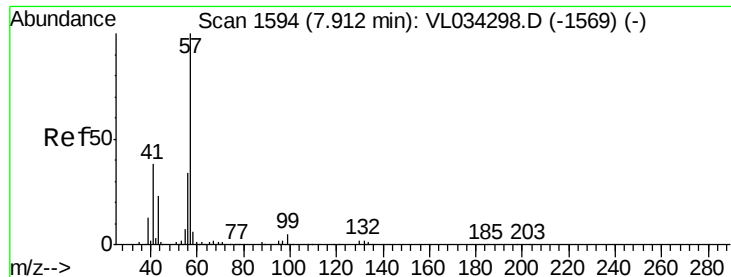
Ion Ratio Lower Upper

69 100

41 0.0 132.1 198.1#

100 0.0 23.2 34.8#

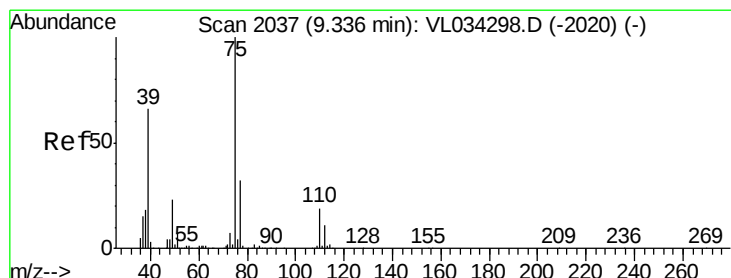
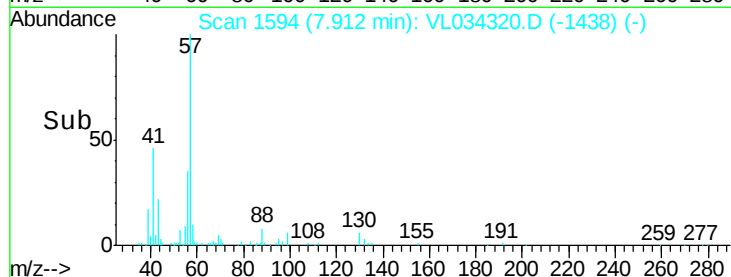
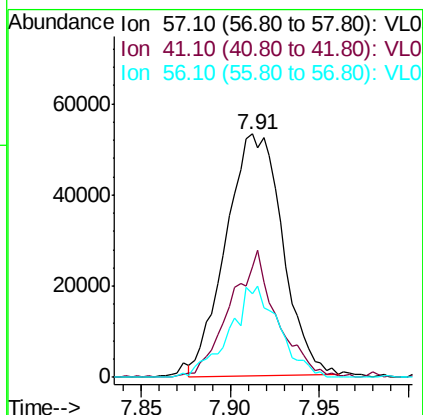
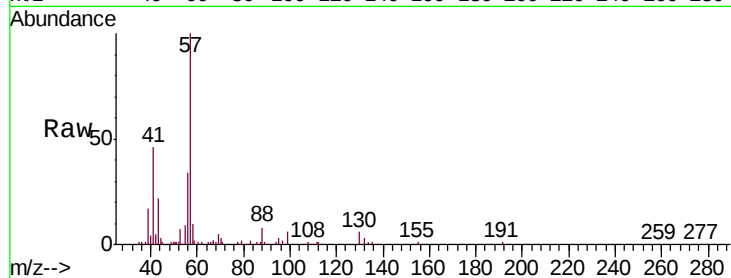




#44
 2,2,4-Trimethylpentane
 Concen: 0.341 ppbv
 RT: 7.91 min Scan# 1594
 Delta R.T. 0.00 min
 Lab File: VL034320.D
 Acq: 17 Oct 2019 17:23

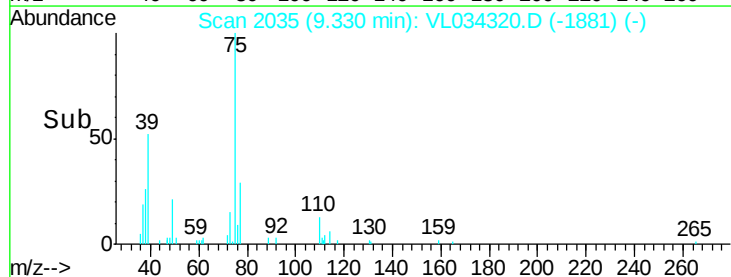
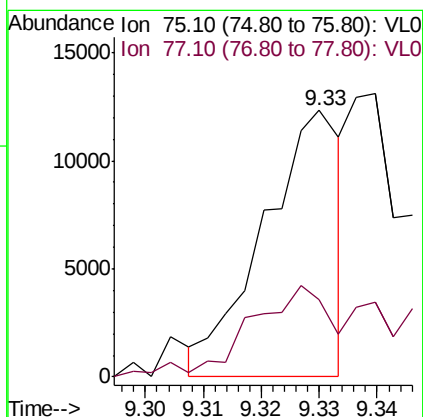
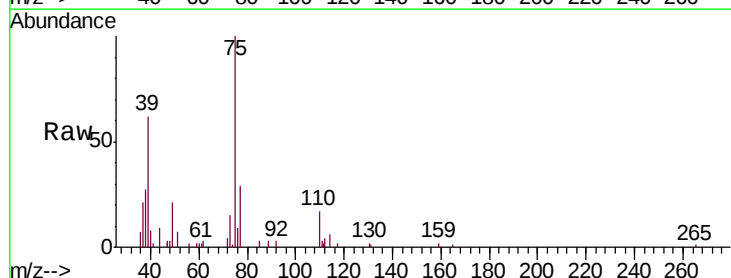
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT4-2019DL

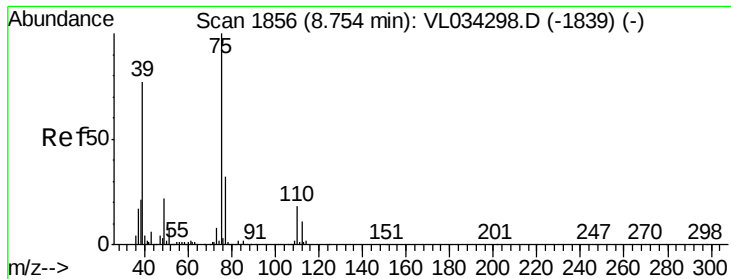
Tgt Ion: 57 Resp: 117349
 Ion Ratio Lower Upper
 57 100
 41 43.6 29.3 43.9
 56 33.2 25.3 37.9



#45
 t-1,3-Dichloropropene
 Concen: 0.122 ppbv
 RT: 9.33 min Scan# 2035
 Delta R.T. -0.01 min
 Lab File: VL034320.D
 Acq: 17 Oct 2019 17:23

Tgt Ion: 75 Resp: 11384
 Ion Ratio Lower Upper
 75 100
 77 26.4 25.6 38.4



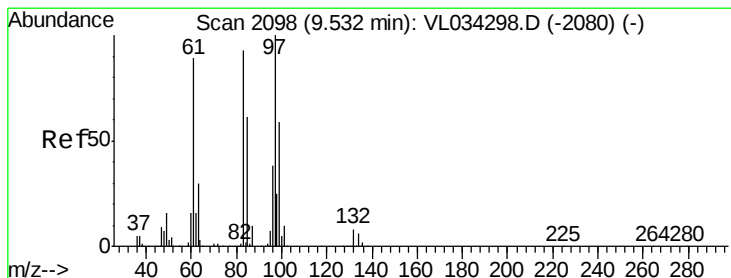
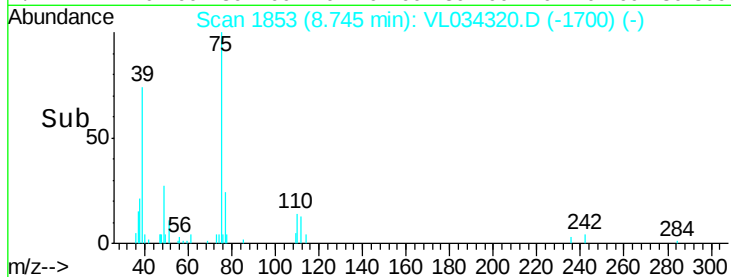
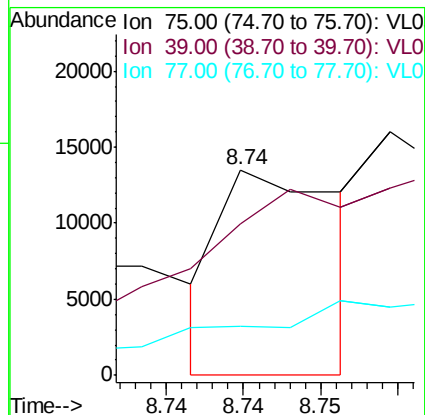
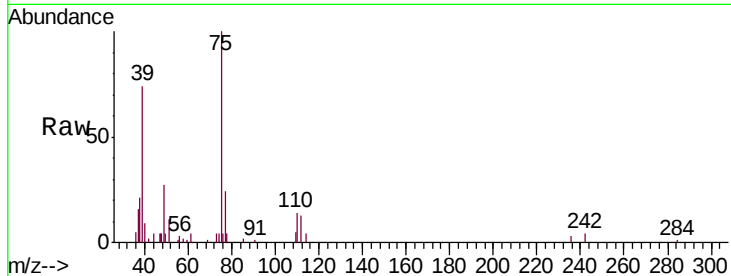


#46

cis-1,3-Dichloropropene
 Concen: 0.067 ppbv
 RT: 8.74 min Scan# 1853
 Delta R.T. -0.01 min
 Lab File: VL034320.D
 Acq: 17 Oct 2019 17:23

Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT4-2019DL

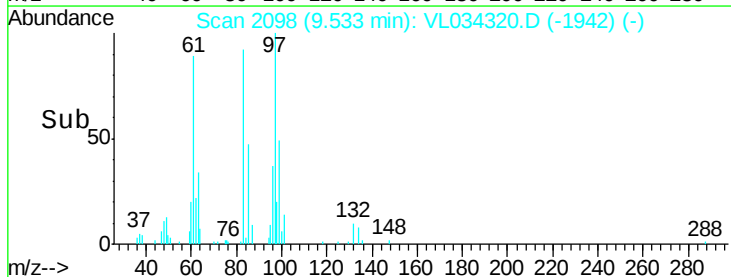
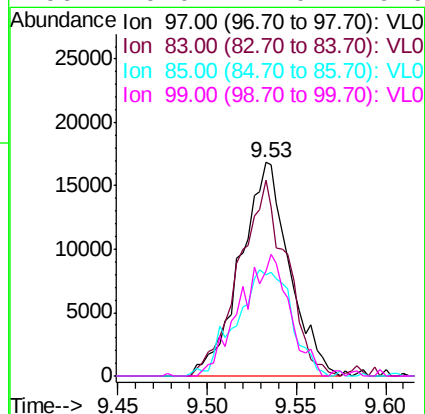
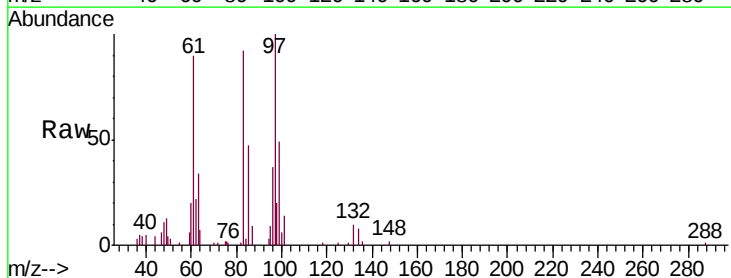
Tgt Ion: 75 Resp: 7254
 Ion Ratio Lower Upper
 75 100
 39 39.5 61.2 91.8#
 77 7.0 25.9 38.9#

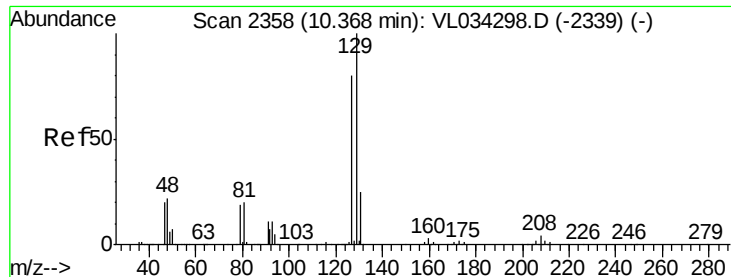


#47

1,1,2-Trichloroethane
 Concen: 0.399 ppbv
 RT: 9.53 min Scan# 2098
 Delta R.T. 0.00 min
 Lab File: VL034320.D
 Acq: 17 Oct 2019 17:23

Tgt Ion: 97 Resp: 32299
 Ion Ratio Lower Upper
 97 100
 83 91.8 74.2 111.2
 85 46.4 48.6 73.0#
 99 49.0 47.0 70.6





#48

Dibromochloromethane

Concen: 0.350 ppbv

RT: 10.37 min Scan# 2357

Delta R.T. -0.00 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

Instrument :

MSVOA_L

ClientSampleId :

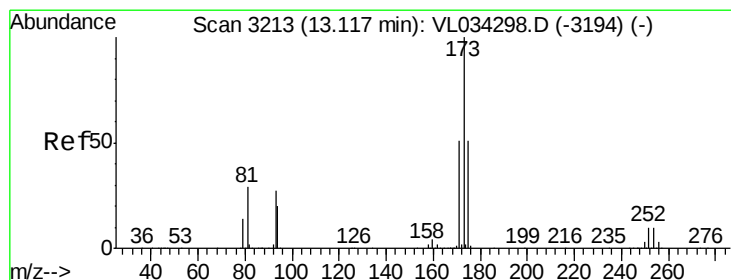
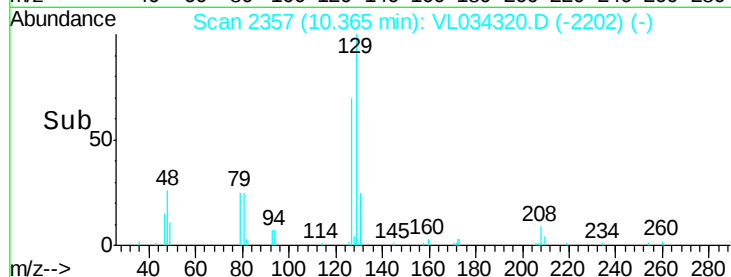
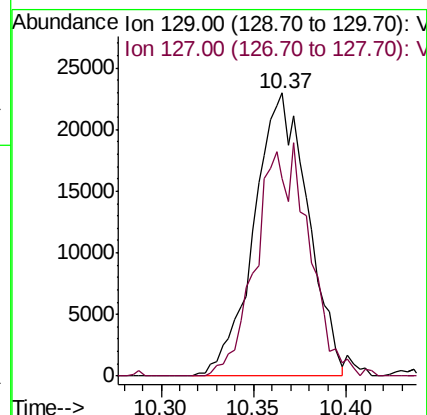
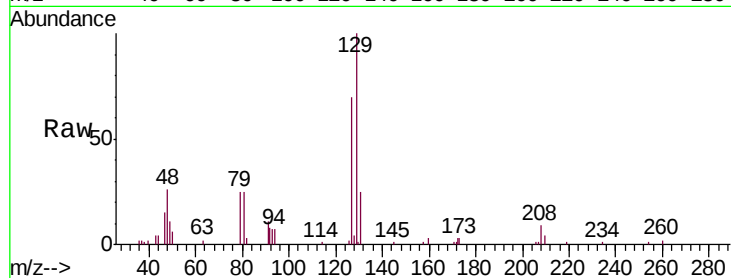
MDL-MDL-AIR-03-QT4-2019DL

Tgt Ion:129 Resp: 46515

Ion Ratio Lower Upper

129 100

127 79.8 39.7 119.1



#49

Bromoform

Concen: 0.348 ppbv

RT: 13.12 min Scan# 3214

Delta R.T. 0.00 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

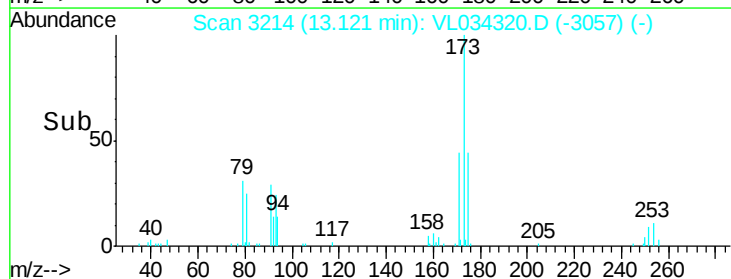
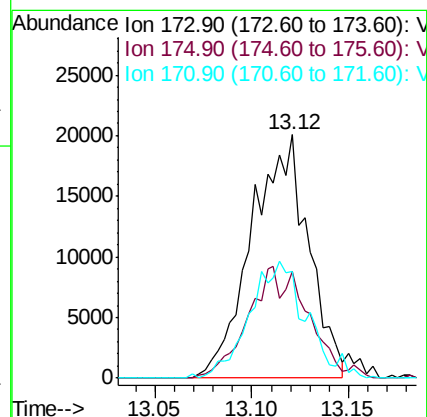
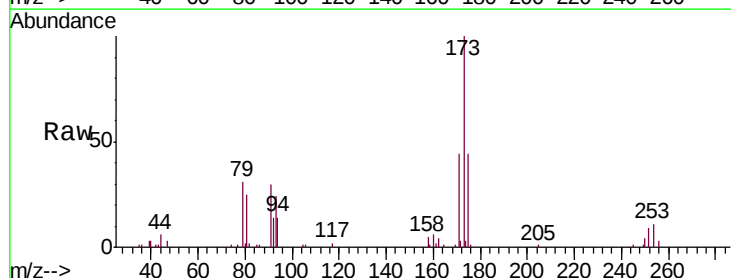
Tgt Ion:173 Resp: 40953

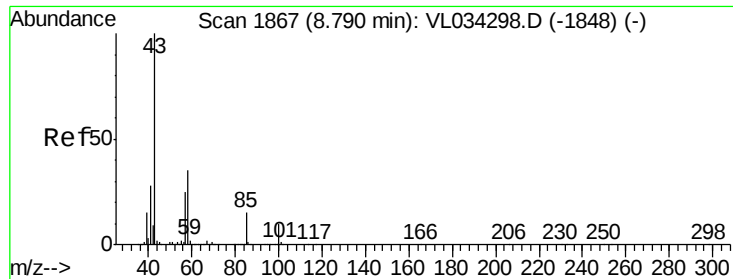
Ion Ratio Lower Upper

173 100

175 48.4 39.8 59.6

171 48.2 41.8 62.6

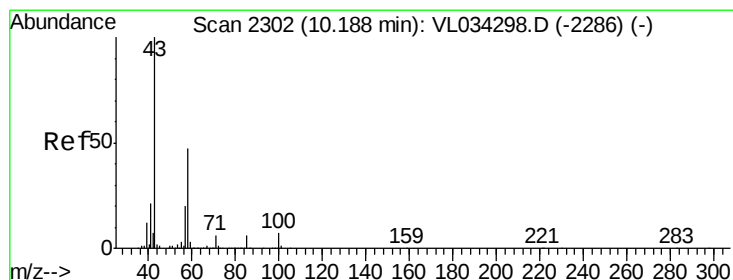
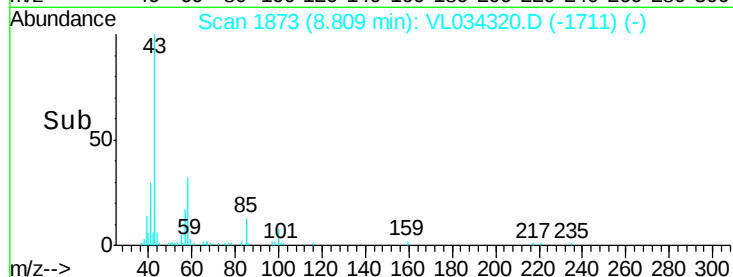
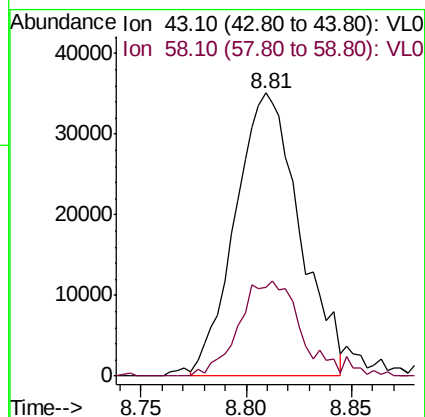
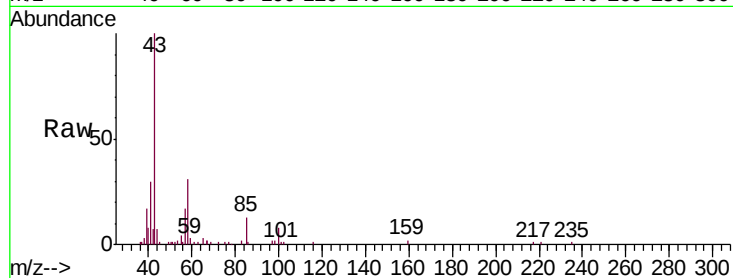




#50
 4-Methyl-2-Pentanone
 Concen: 0.329 ppbv
 RT: 8.81 min Scan# 1873
 Delta R.T. 0.02 min
 Lab File: VL034320.D
 Acq: 17 Oct 2019 17:23

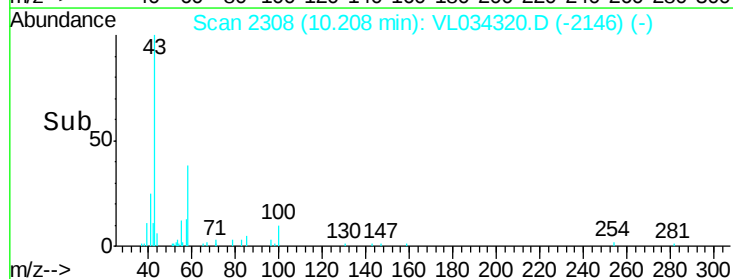
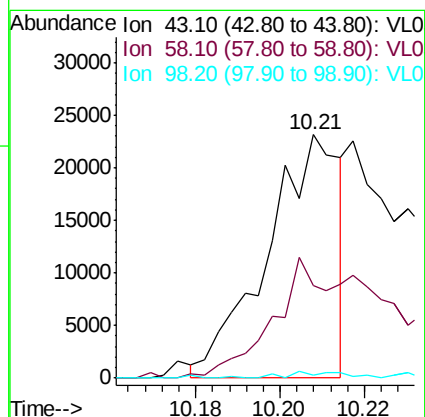
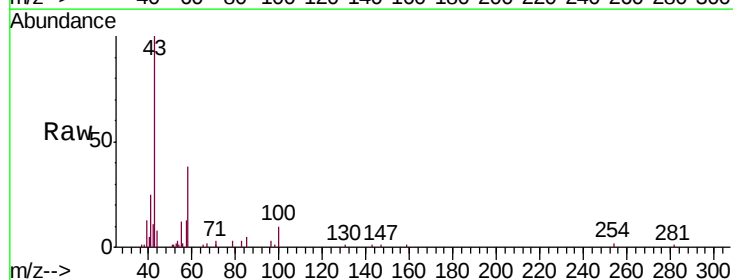
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT4-2019DL

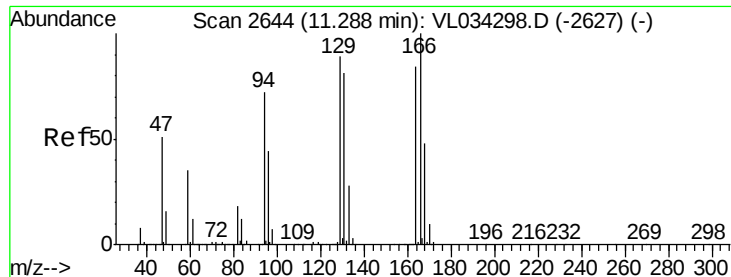
Tgt Ion: 43 Resp: 74497
 Ion Ratio Lower Upper
 43 100
 58 33.0 27.6 41.4



#51
 2-Hexanone
 Concen: 0.149 ppbv
 RT: 10.21 min Scan# 2308
 Delta R.T. 0.02 min
 Lab File: VL034320.D
 Acq: 17 Oct 2019 17:23

Tgt Ion: 43 Resp: 27697
 Ion Ratio Lower Upper
 43 100
 58 88.8 37.0 55.6#
 98 2.6 0.2 0.2#





#52

Tetrachloroethene

Concen: 0.160 ppbv

RT: 11.28 min Scan# 2641

Delta R.T. -0.01 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

Instrument :

MSVOA_L

ClientSampleId :

MDL-MDL-AIR-03-QT4-2019DL

Tgt Ion:164 Resp: 11640

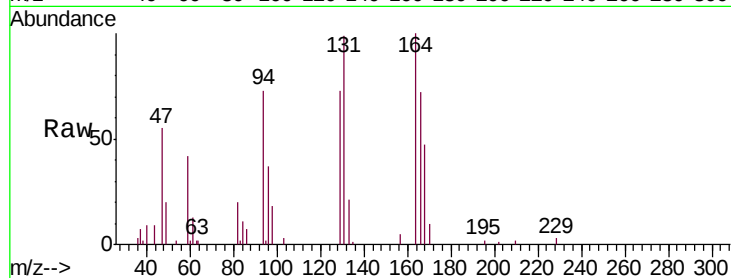
Ion Ratio Lower Upper

164 100

166 65.9 95.3 142.9#

129 69.1 84.5 126.7#

131 90.8 77.3 115.9

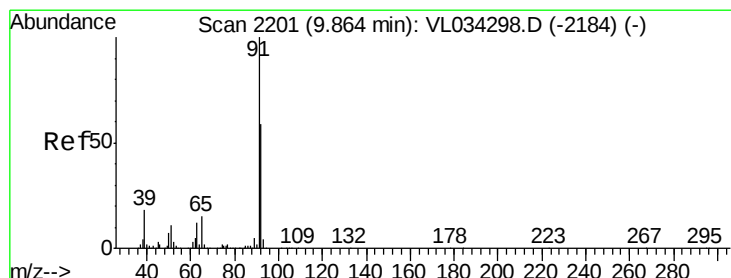
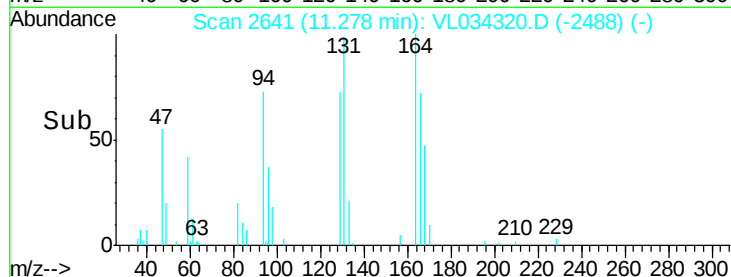
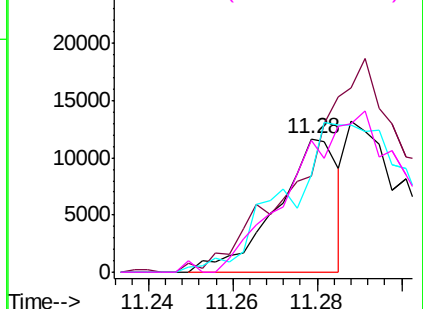


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.318 ppbv

RT: 9.86 min Scan# 2201

Delta R.T. 0.00 min

Lab File: VL034320.D

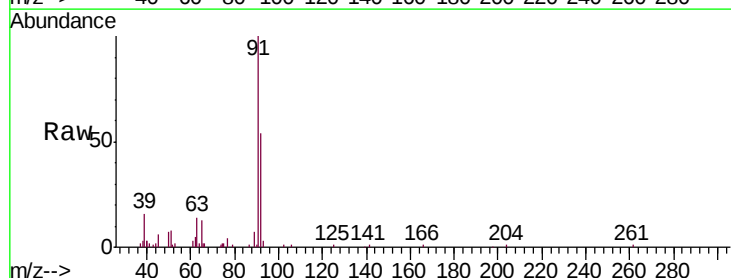
Acq: 17 Oct 2019 17:23

Tgt Ion: 91 Resp: 65176

Ion Ratio Lower Upper

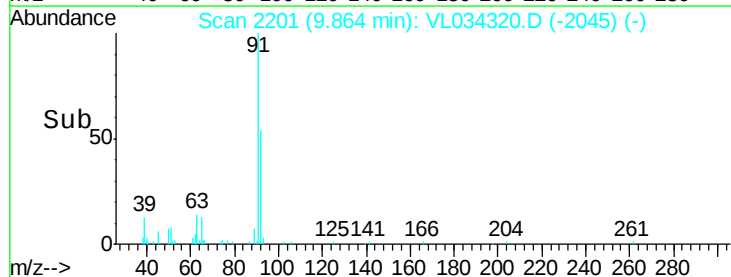
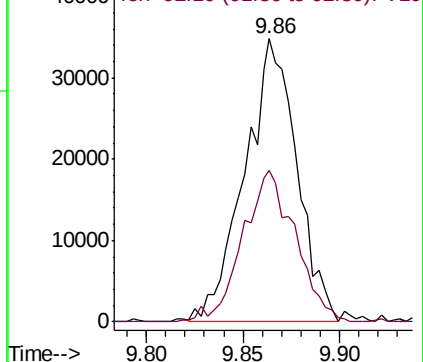
91 100

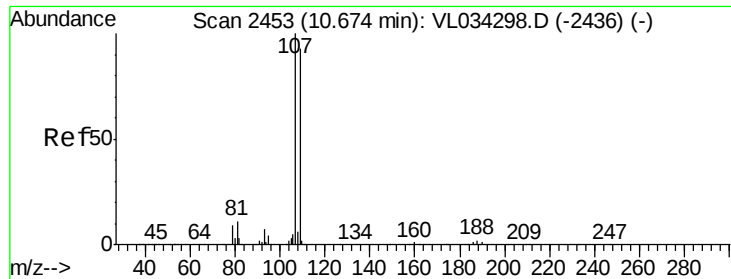
92 53.9 48.4 72.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

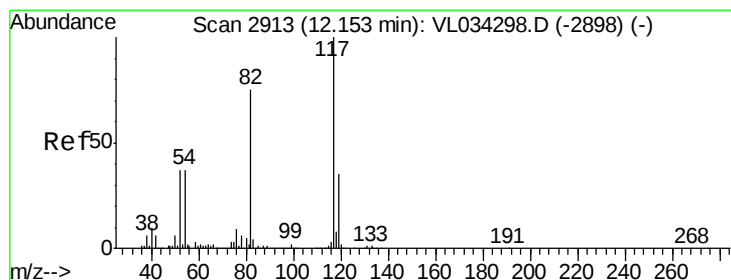
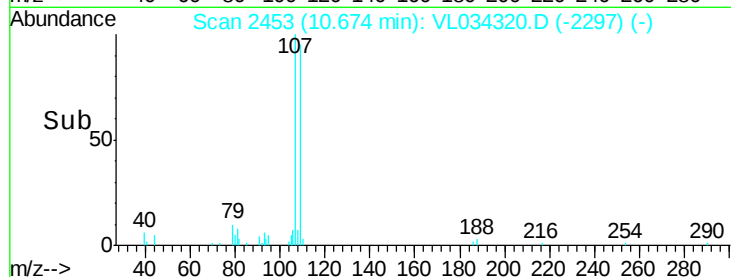
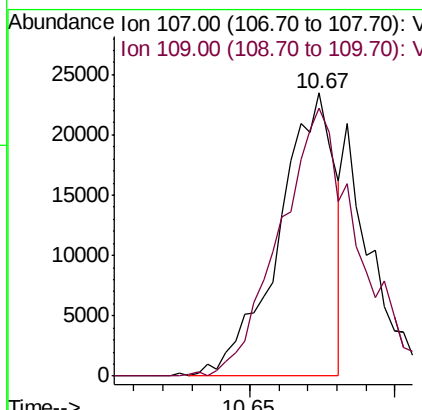
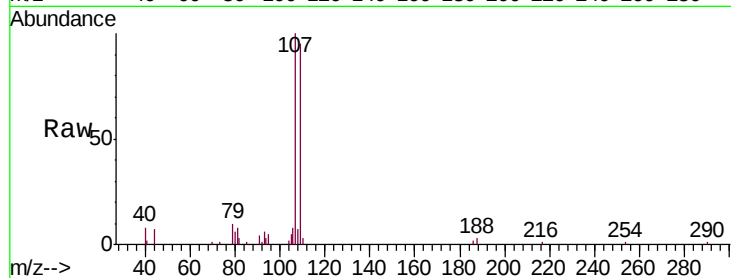




#54
 1,2-Dibromoethane
 Concen: 0.261 ppbv
 RT: 10.67 min Scan# 2453
 Delta R.T. 0.00 min
 Lab File: VL034320.D
 Acq: 17 Oct 2019 17:23

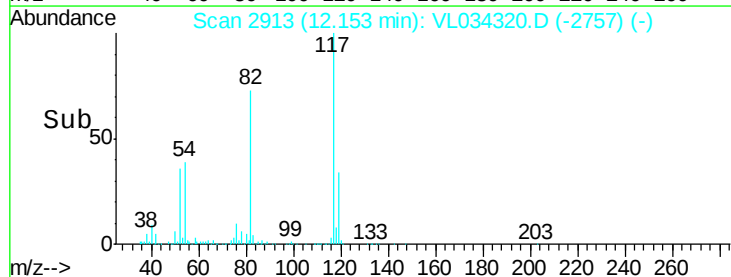
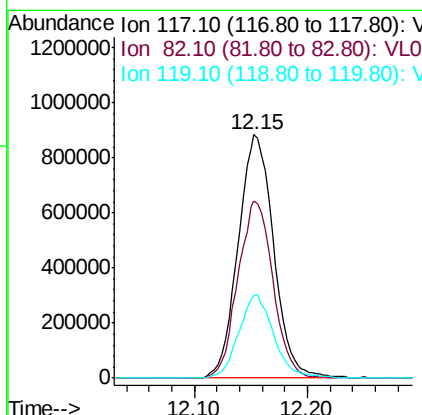
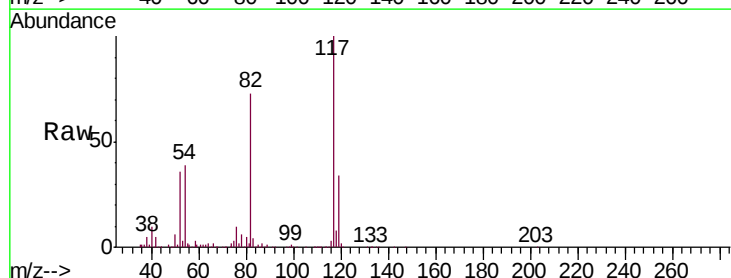
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT4-2019DL

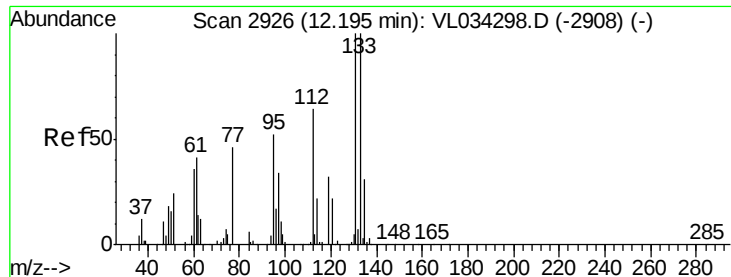
Tgt Ion:107 Resp: 31375
 Ion Ratio Lower Upper
 107 100
 109 93.8 74.6 112.0



#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.15 min Scan# 2913
 Delta R.T. 0.00 min
 Lab File: VL034320.D
 Acq: 17 Oct 2019 17:23

Tgt Ion:117 Resp: 1927670
 Ion Ratio Lower Upper
 117 100
 82 72.1 55.5 83.3
 119 33.9 26.5 39.7

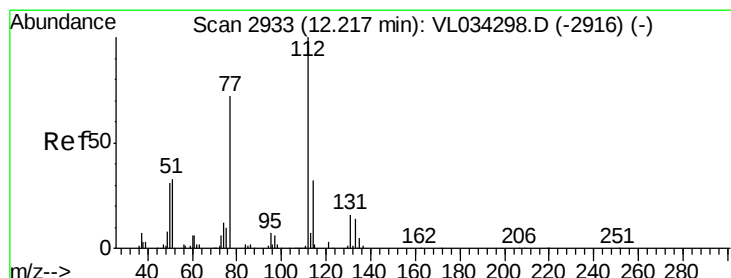
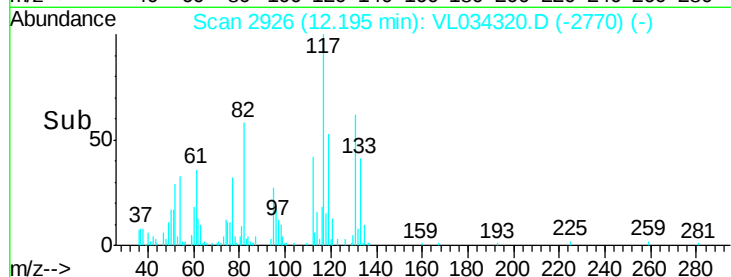
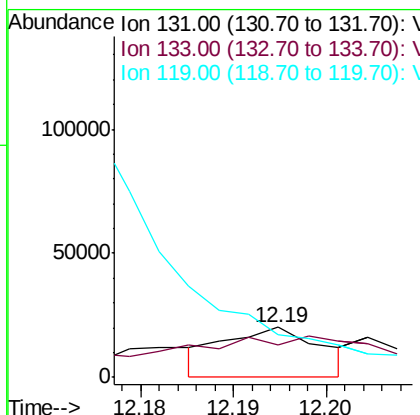
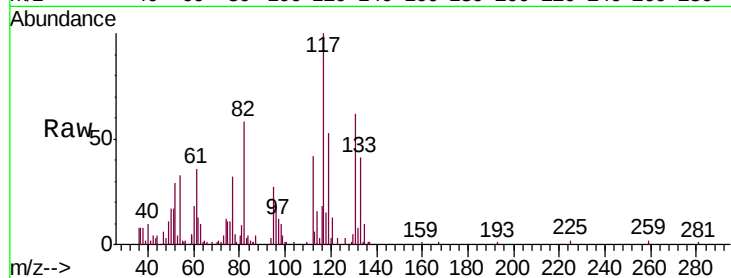




#56
 1,1,1,2-Tetrachloroethane
 Concen: 0.167 ppbv
 RT: 12.19 min Scan# 2926
 Delta R.T. 0.00 min
 Lab File: VL034320.D
 Acq: 17 Oct 2019 17:23

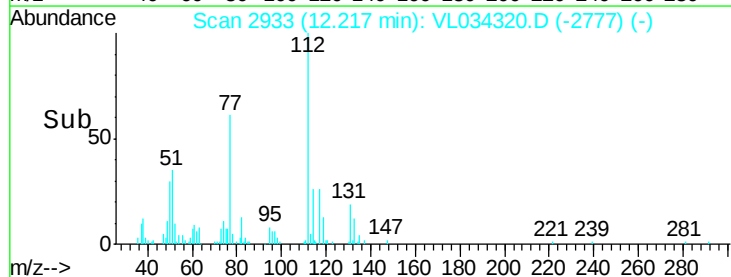
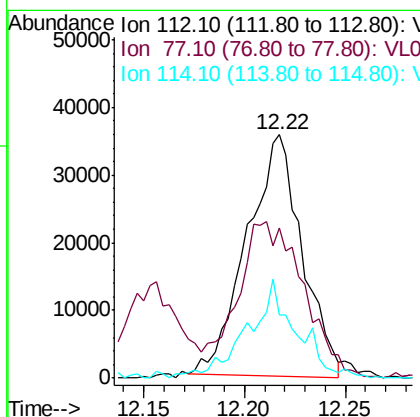
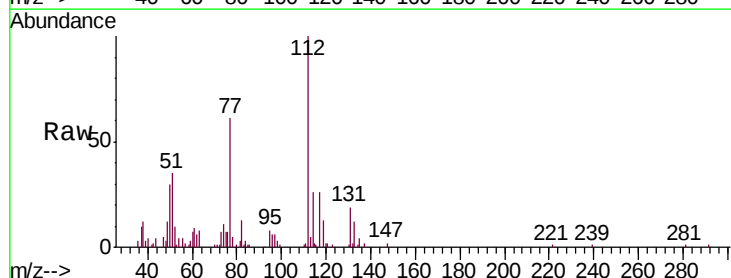
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT4-2019DL

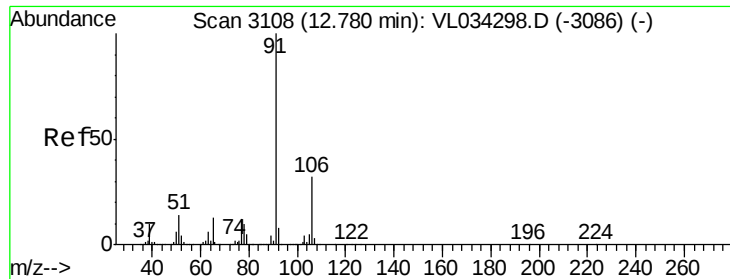
Tgt Ion:131 Resp: 14822
 Ion Ratio Lower Upper
 131 100
 133 238.5 77.1 115.7#
 119 0.0 49.0 73.4#



#57
 Chlorobenzene
 Concen: 0.423 ppbv
 RT: 12.22 min Scan# 2933
 Delta R.T. 0.00 min
 Lab File: VL034320.D
 Acq: 17 Oct 2019 17:23

Tgt Ion:112 Resp: 67978
 Ion Ratio Lower Upper
 112 100
 77 49.9 58.6 88.0#
 114 22.9 28.6 35.0#





#58

Ethyl Benzene

Concen: 0.342 ppbv

RT: 12.78 min Scan# 3108

Delta R.T. 0.00 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

Instrument :

MSVOA_L

ClientSampleId :

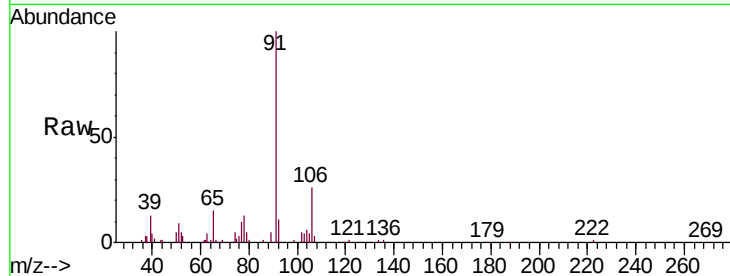
MDL-MDL-AIR-03-QT4-2019DL

Tgt Ion: 91 Resp: 92252

Ion Ratio Lower Upper

91 100

106 25.3 25.3 37.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

12.78

50000

40000

30000

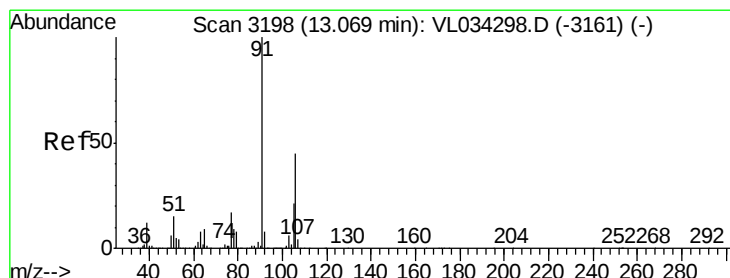
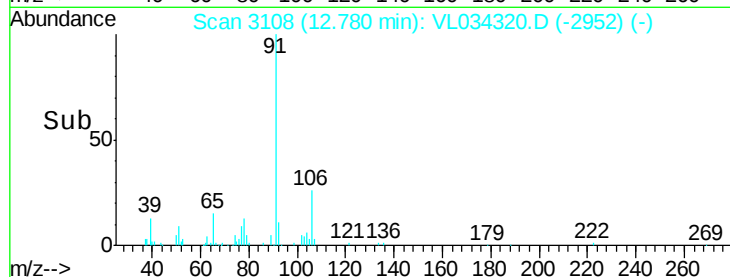
20000

10000

0

Time-->

12.70 12.75 12.80 12.85



#59

m/p-Xylene

Concen: 0.300 ppbv

RT: 13.07 min Scan# 3197

Delta R.T. -0.00 min

Lab File: VL034320.D

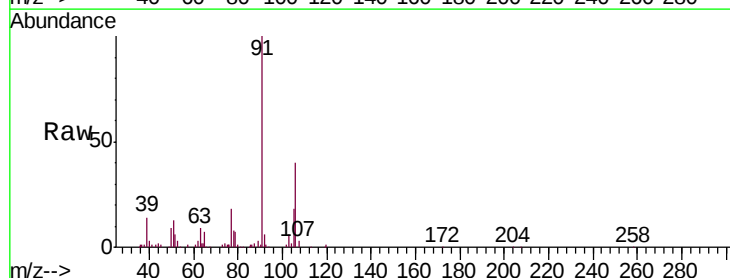
Acq: 17 Oct 2019 17:23

Tgt Ion: 91 Resp: 70091

Ion Ratio Lower Upper

91 100

106 0.0 35.4 53.2#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V

13.07

50000

40000

30000

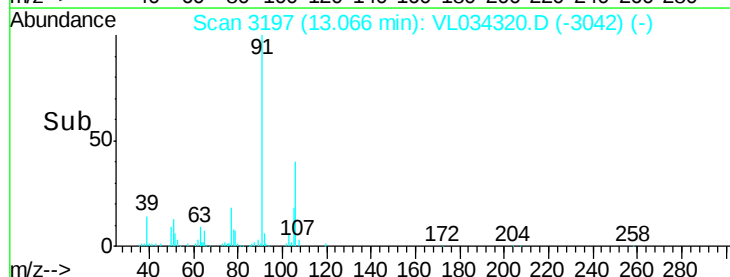
20000

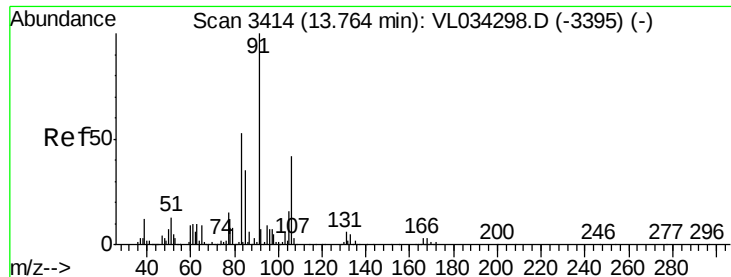
10000

0

Time-->

13.05 13.10





#60

o-Xylene

Concen: 0.367 ppbv

RT: 13.76 min Scan# 3413

Delta R.T. -0.00 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

Instrument :

MSVOA_L

ClientSampleId :

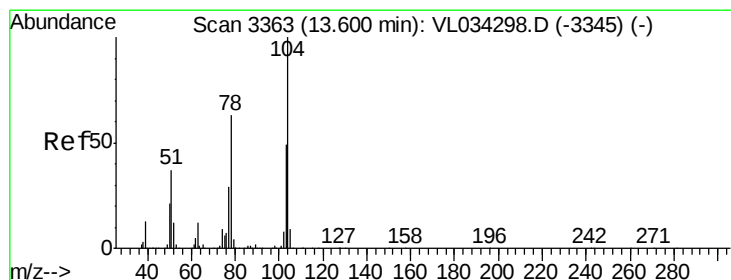
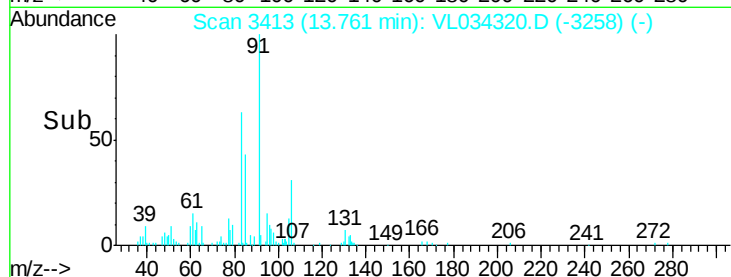
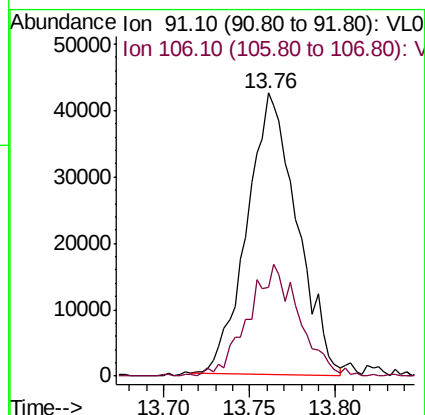
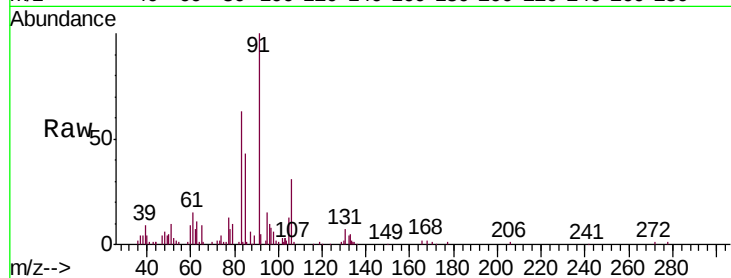
MDL-MDL-AIR-03-QT4-2019DL

Tgt Ion: 91 Resp: 85243

Ion Ratio Lower Upper

91 100

106 40.9 21.6 64.6



#61

Styrene

Concen: 0.170 ppbv

RT: 13.61 min Scan# 3365

Delta R.T. 0.01 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

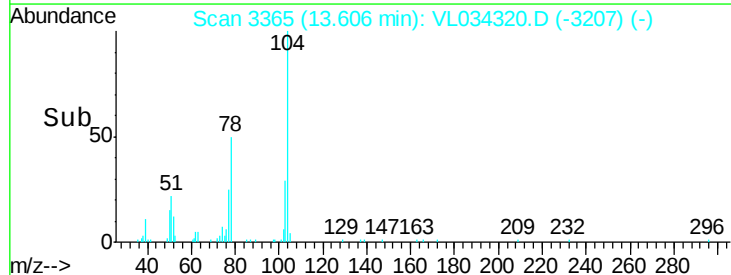
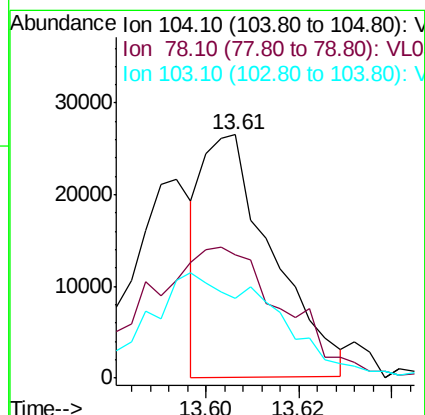
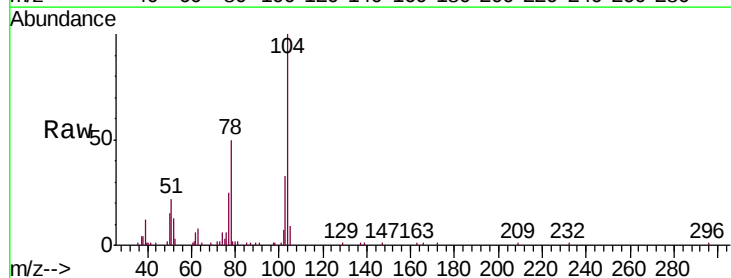
Tgt Ion: 104 Resp: 27838

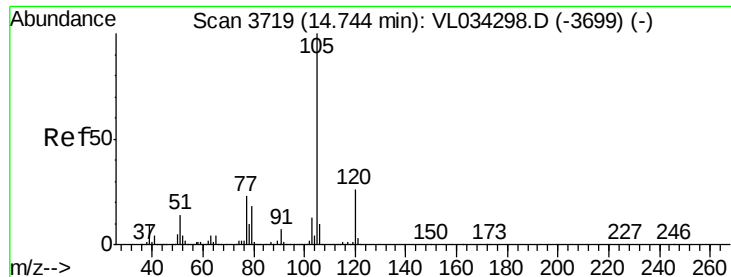
Ion Ratio Lower Upper

104 100

78 110.7 47.8 71.8#

103 0.0 39.0 58.6#





#62

Isopropylbenzene

Concen: 0.374 ppbv

RT: 14.74 min Scan# 3717

Delta R.T. -0.01 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

Instrument :

MSVOA_L

ClientSampleId :

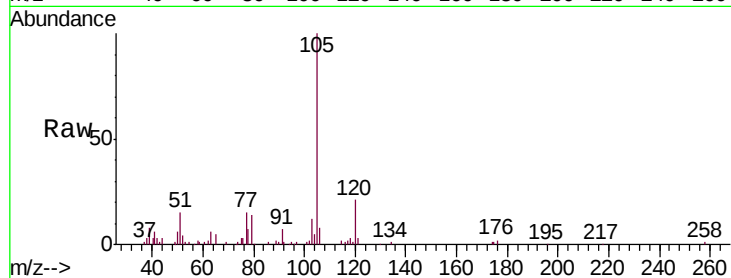
MDL-MDL-AIR-03-QT4-2019DL

Tgt Ion:105 Resp: 114837

Ion Ratio Lower Upper

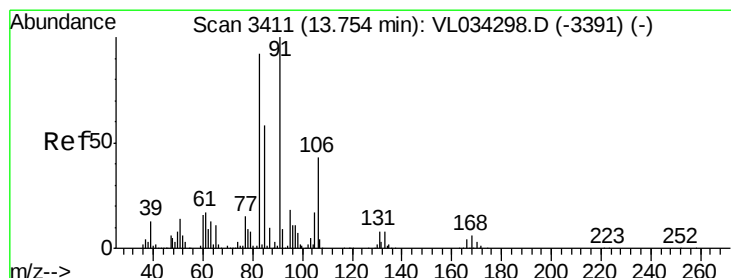
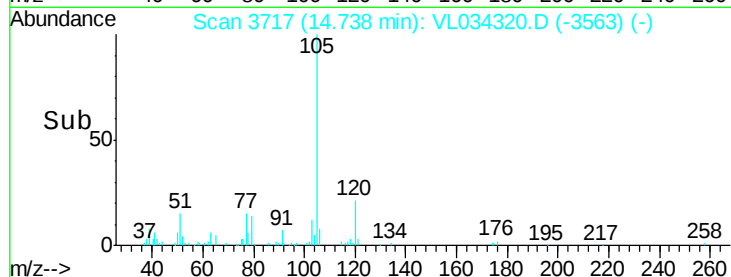
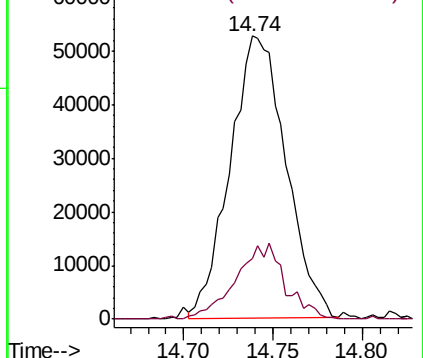
105 100

120 23.8 20.8 31.2



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#63

1,1,2,2-Tetrachloroethane

Concen: 0.405 ppbv

RT: 13.75 min Scan# 3411

Delta R.T. 0.00 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

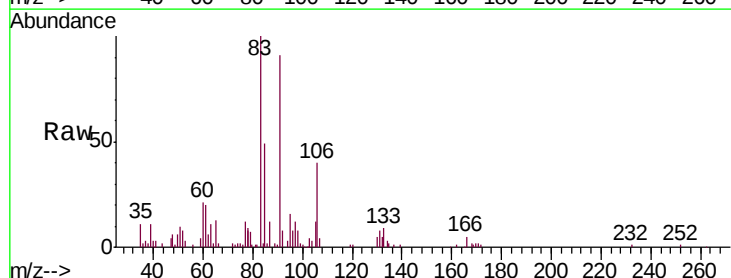
Tgt Ion: 83 Resp: 75658

Ion Ratio Lower Upper

83 100

131 9.9 4.8 14.4

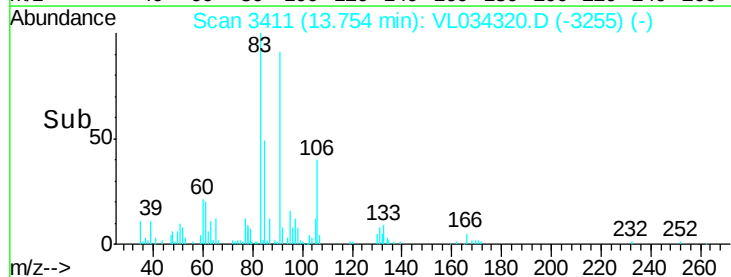
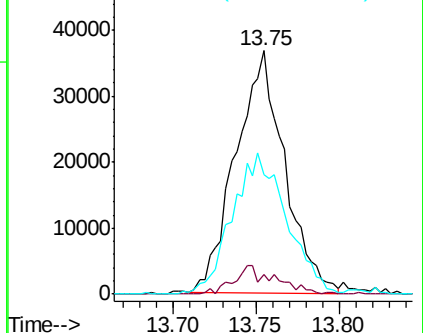
85 65.5 32.5 97.4

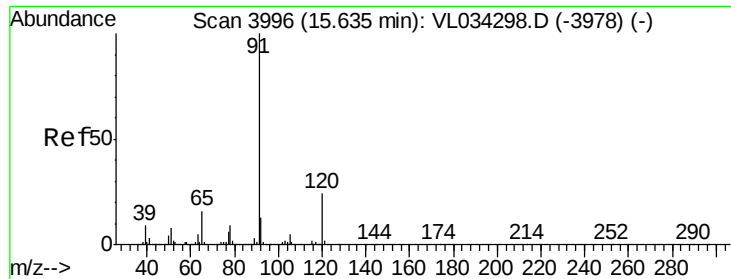


Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): V

Ion 85.00 (84.70 to 85.70): VL0

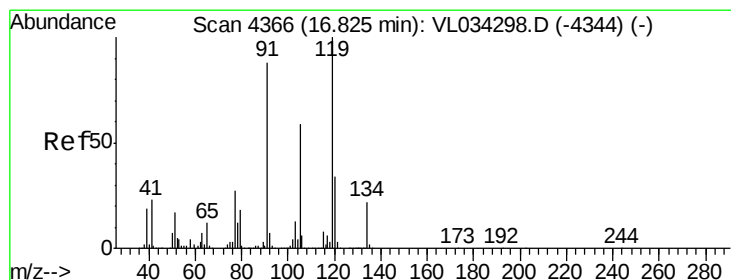
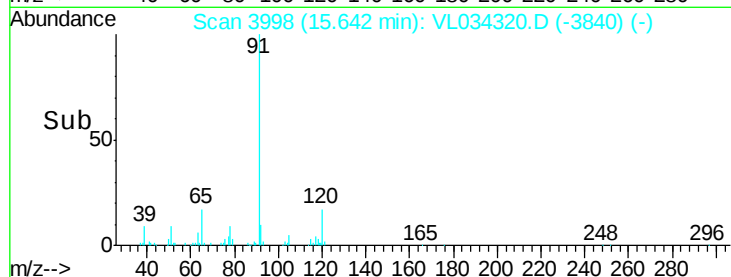
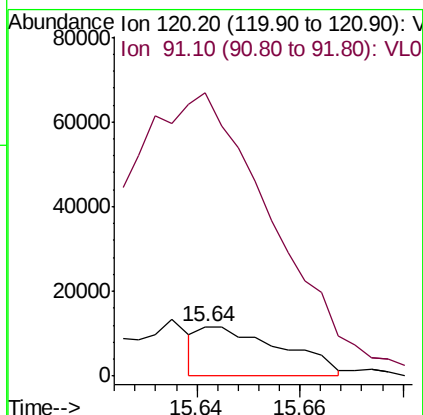
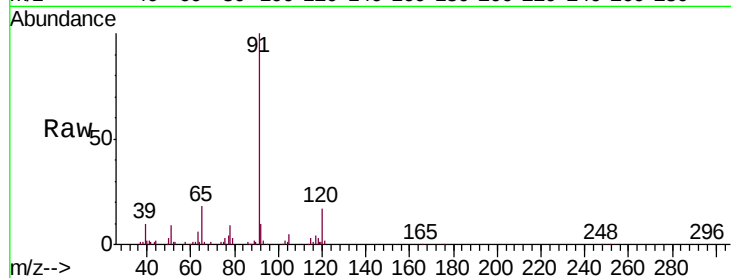




#64
n-propylbenzene
Concen: 0.162 ppbv
RT: 15.64 min Scan# 3998
Delta R.T. 0.01 min
Lab File: VL034320.D
Acq: 17 Oct 2019 17:23

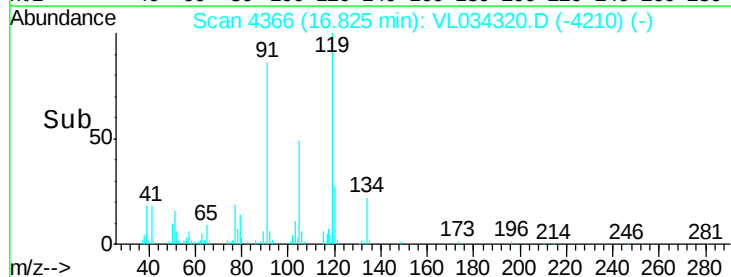
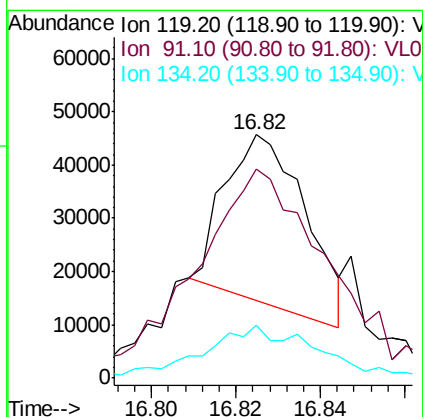
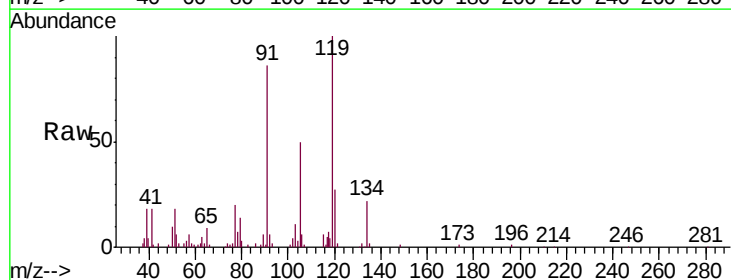
Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT4-2019DL

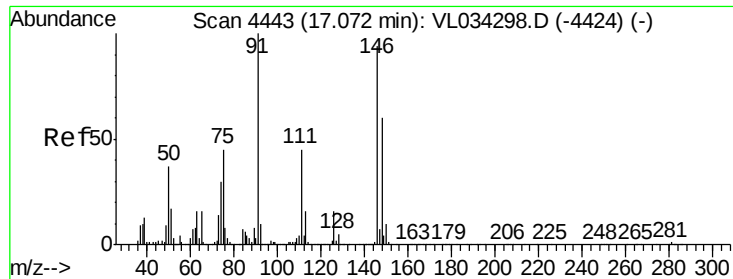
Tgt Ion:120 Resp: 12731
Ion Ratio Lower Upper
120 100
91 1192.9 374.9 562.3#



#65
tert-Butylbenzene
Concen: 0.152 ppbv
RT: 16.82 min Scan# 4366
Delta R.T. 0.00 min
Lab File: VL034320.D
Acq: 17 Oct 2019 17:23

Tgt Ion:119 Resp: 41232
Ion Ratio Lower Upper
119 100
91 221.0 71.4 107.0#
134 46.2 15.9 23.9#

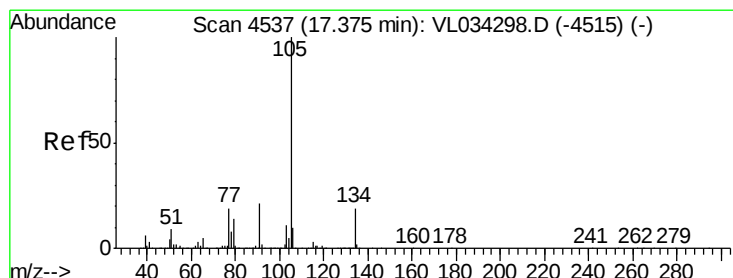
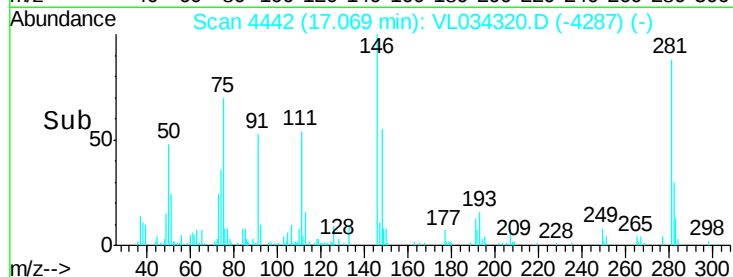
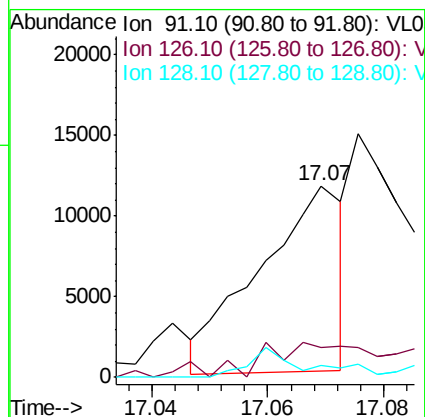
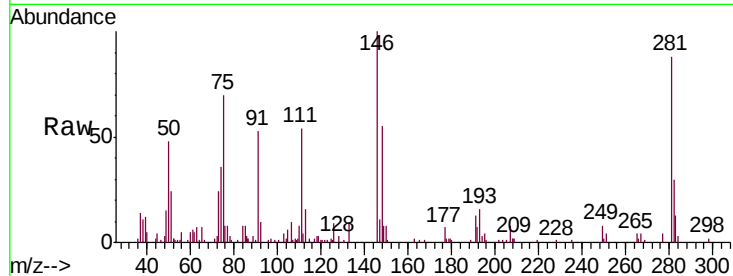




#66
Benzyl Chloride
Concen: 0.108 ppbv
RT: 17.07 min Scan# 4442
Delta R.T. -0.00 min
Lab File: VL034320.D
Acq: 17 Oct 2019 17:23

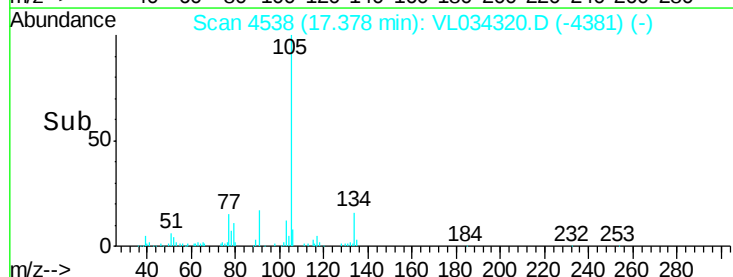
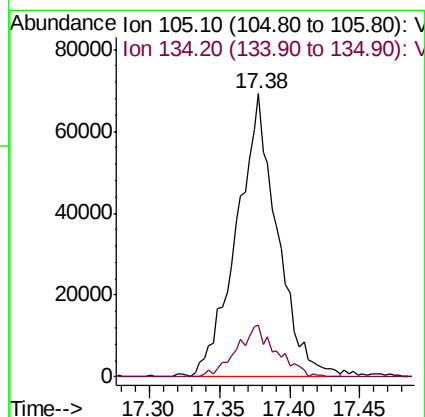
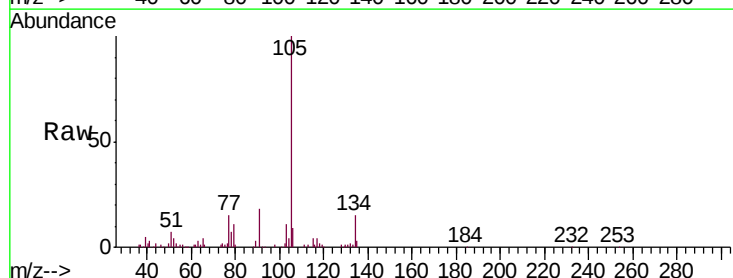
Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT4-2019DL

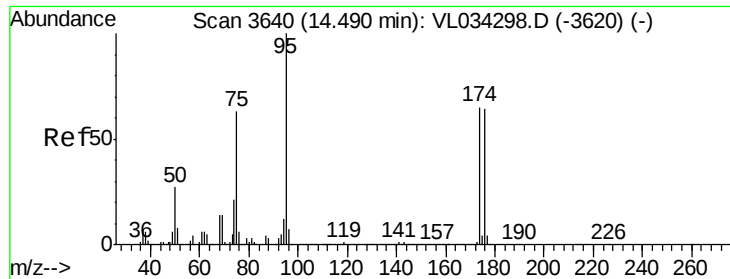
Tgt Ion: 91 Resp: 11640
Ion Ratio Lower Upper
91 100
126 0.0 12.9 19.3#
128 16.6 4.3 6.5#



#67
sec-Butylbenzene
Concen: 0.364 ppbv
RT: 17.38 min Scan# 4538
Delta R.T. 0.00 min
Lab File: VL034320.D
Acq: 17 Oct 2019 17:23

Tgt Ion: 105 Resp: 139428
Ion Ratio Lower Upper
105 100
134 17.8 15.4 23.0

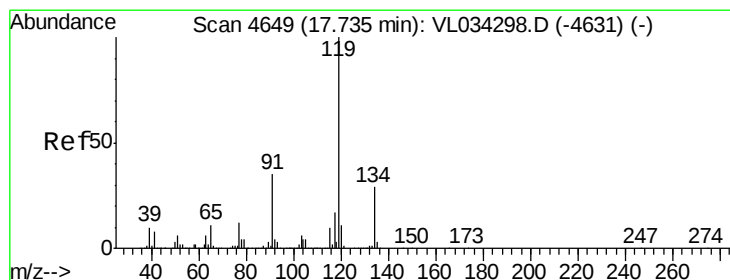
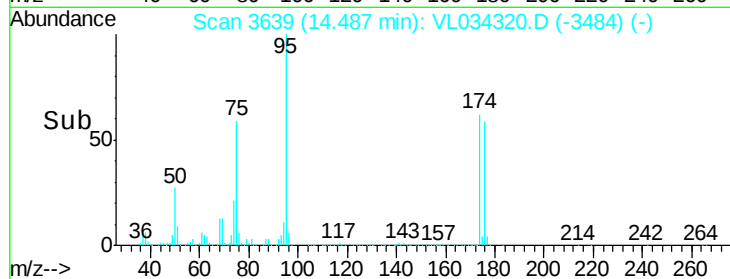
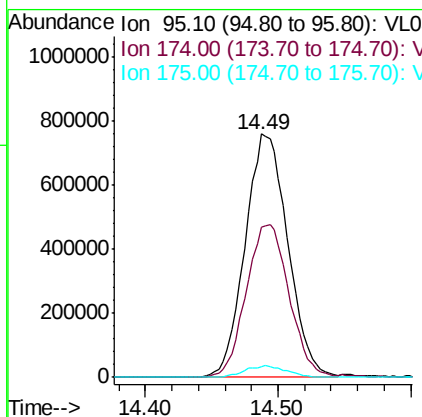
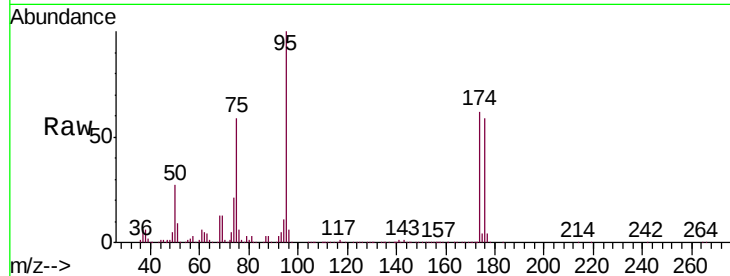




#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.431 ppbv
 RT: 14.49 min Scan# 3639
 Delta R.T. -0.00 min
 Lab File: VL034320.D
 Acq: 17 Oct 2019 17:23

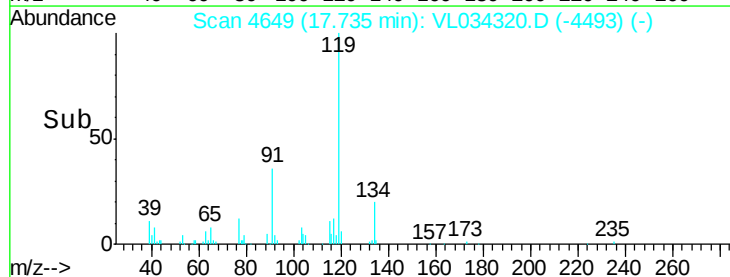
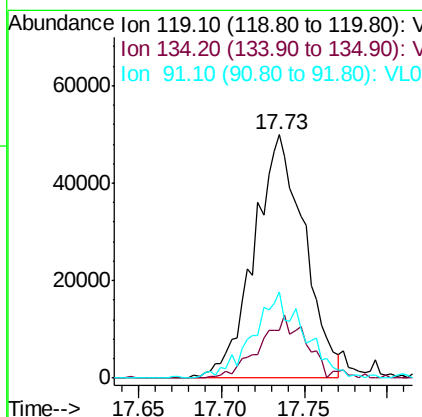
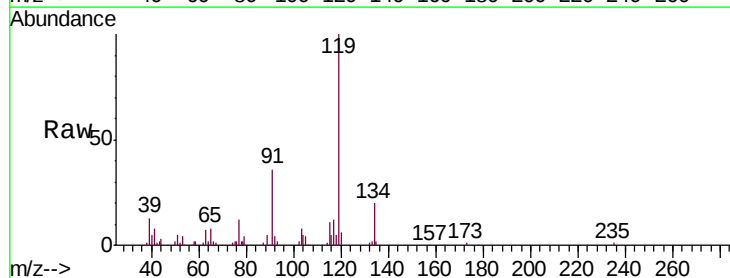
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT4-2019DL

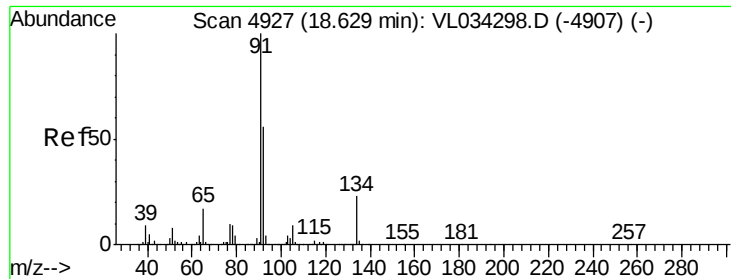
Tgt Ion: 95 Resp: 1703001
 Ion Ratio Lower Upper
 95 100
 174 63.4 52.6 78.8
 175 4.7 3.8 5.6



#69
 p-Isopropyltoluene
 Concen: 0.338 ppbv
 RT: 17.73 min Scan# 4649
 Delta R.T. 0.00 min
 Lab File: VL034320.D
 Acq: 17 Oct 2019 17:23

Tgt Ion: 119 Resp: 105560
 Ion Ratio Lower Upper
 119 100
 134 24.2 21.3 31.9
 91 35.8 26.6 39.8

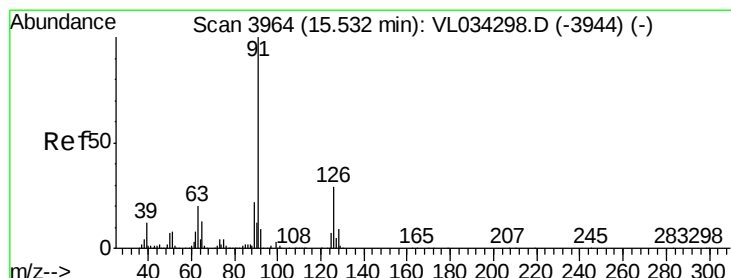
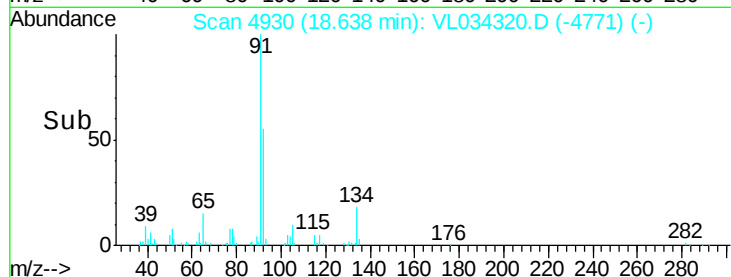
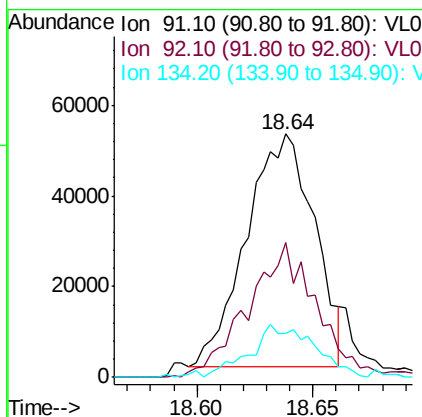
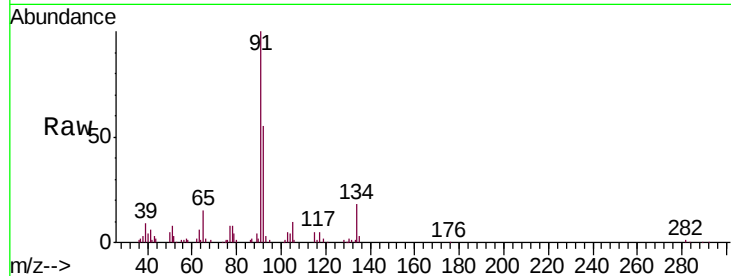




#70
n-Butylbenzene
Concen: 0.308 ppbv
RT: 18.64 min Scan# 4930
Delta R.T. 0.01 min
Lab File: VL034320.D
Acq: 17 Oct 2019 17:23

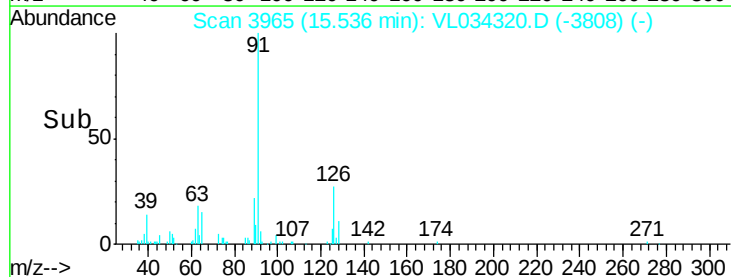
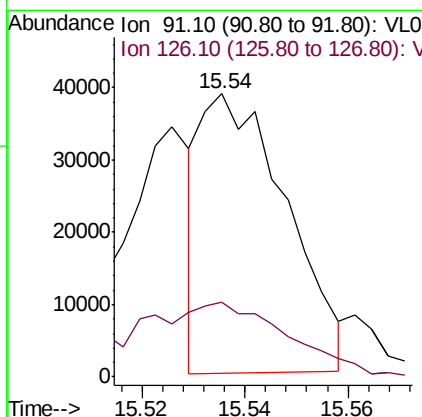
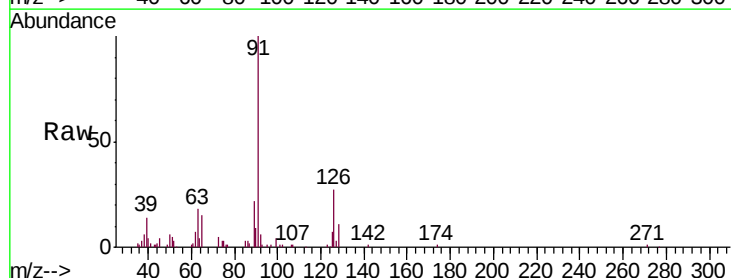
Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT4-2019DL

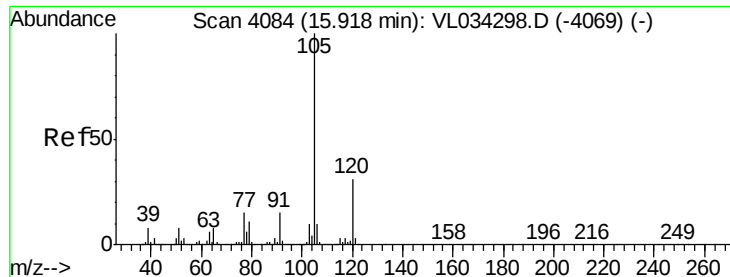
Tgt Ion: 91 Resp: 104430
Ion Ratio Lower Upper
91 100
92 58.7 44.5 66.7
134 23.0 18.2 27.2



#71
2-Chlorotoluene
Concen: 0.186 ppbv
RT: 15.54 min Scan# 3965
Delta R.T. 0.00 min
Lab File: VL034320.D
Acq: 17 Oct 2019 17:23

Tgt Ion: 91 Resp: 44364
Ion Ratio Lower Upper
91 100
126 50.4 11.9 47.5#





#72

4-Ethyltoluene

Concen: 0.217 ppbv

RT: 15.92 min Scan# 4084

Delta R.T. 0.00 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

Instrument :

MSVOA_L

ClientSampleId :

MDL-MDL-AIR-03-QT4-2019DL

Tgt Ion:105 Resp: 56721

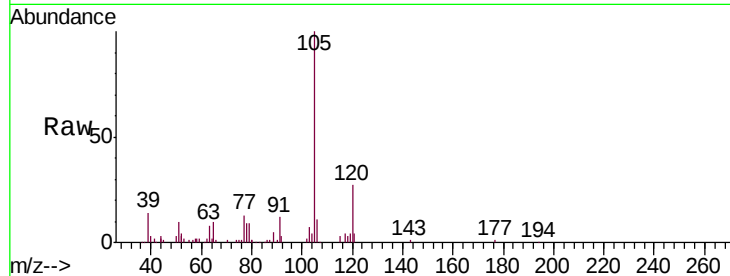
Ion Ratio Lower Upper

105 100

120 47.7 23.8 35.8#

91 26.3 11.2 16.8#

77 27.9 12.8 19.2#

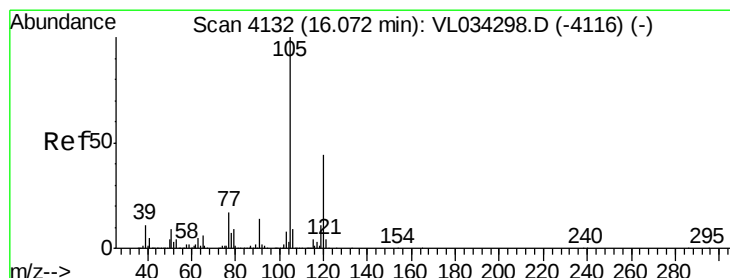
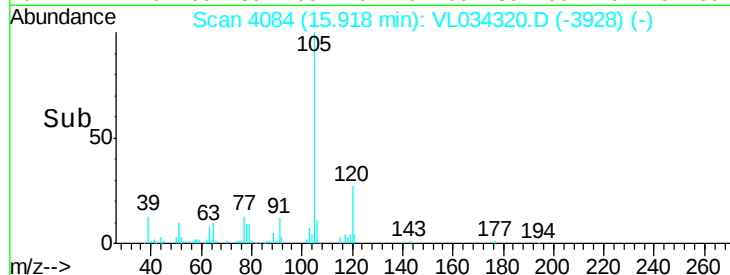
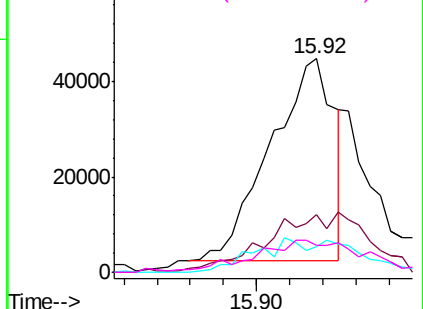


Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0



#73

1,3,5-Trimethylbenzene

Concen: 0.328 ppbv

RT: 16.08 min Scan# 4133

Delta R.T. 0.00 min

Lab File: VL034320.D

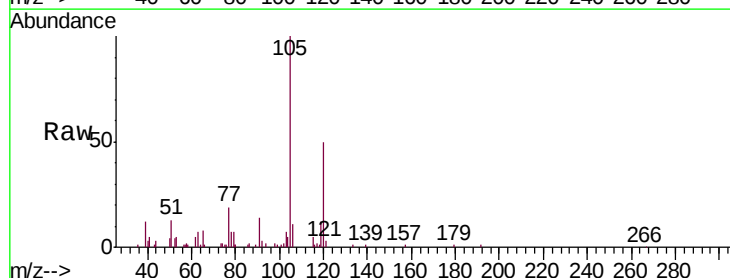
Acq: 17 Oct 2019 17:23

Tgt Ion:105 Resp: 84828

Ion Ratio Lower Upper

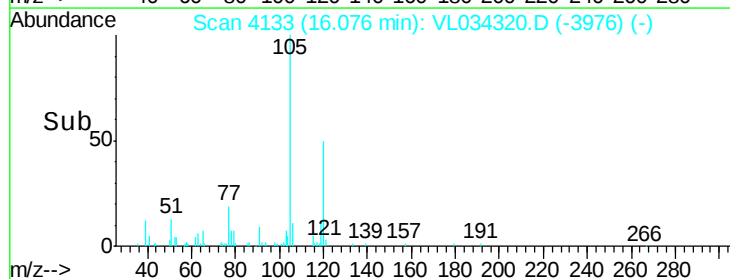
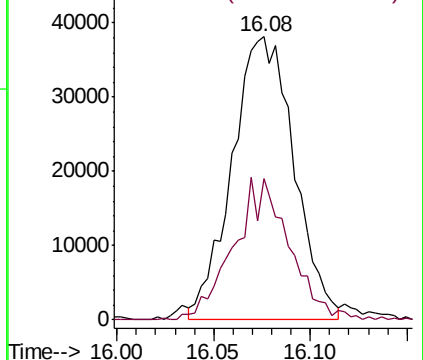
105 100

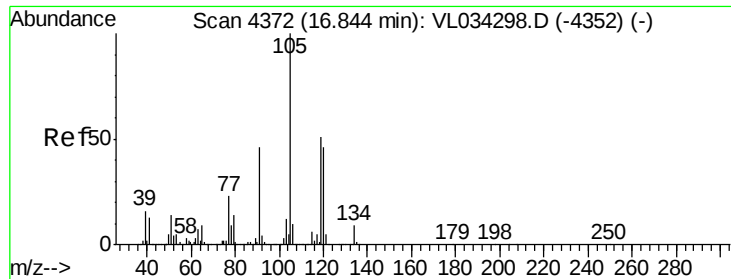
120 49.8 35.2 52.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

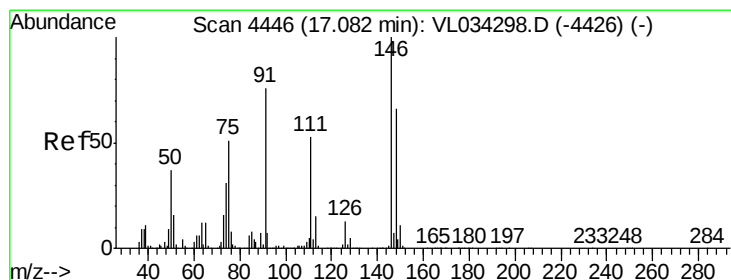
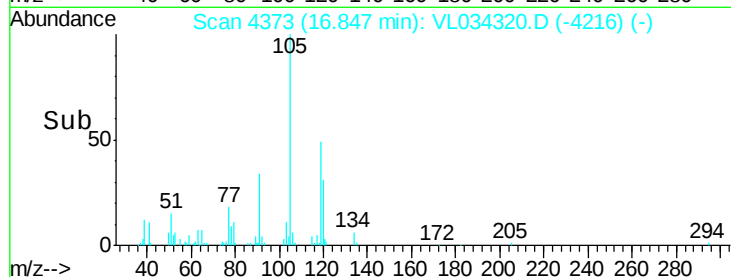
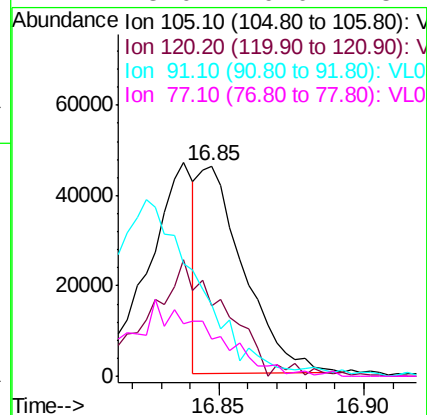
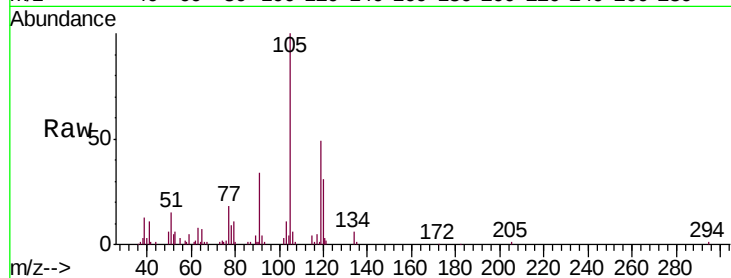




#74
 1,2,4-Trimethylbenzene
 Concen: 0.183 ppbv
 RT: 16.85 min Scan# 4373
 Delta R.T. 0.00 min
 Lab File: VL034320.D
 Acq: 17 Oct 2019 17:23

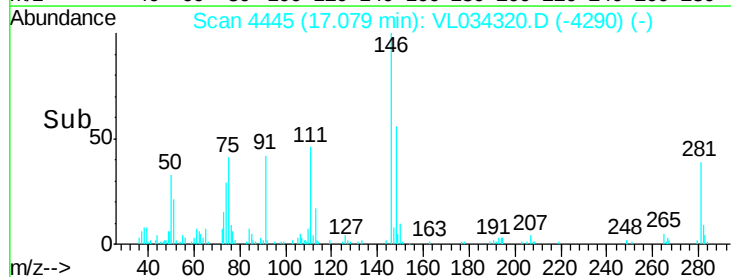
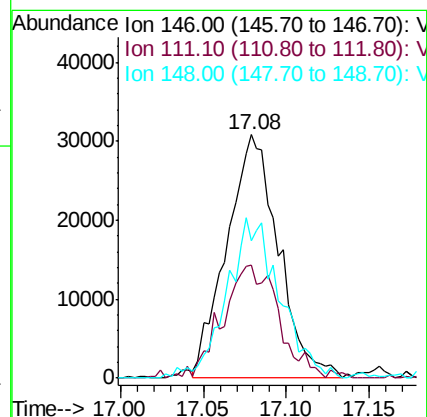
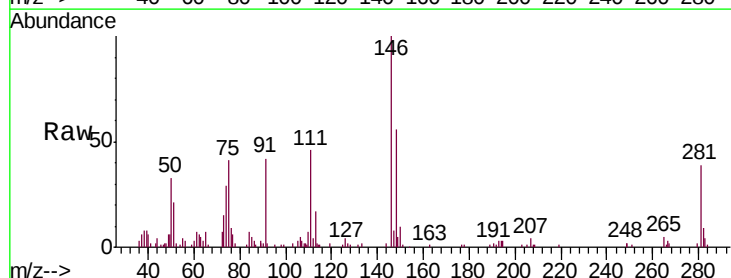
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT4-2019DL

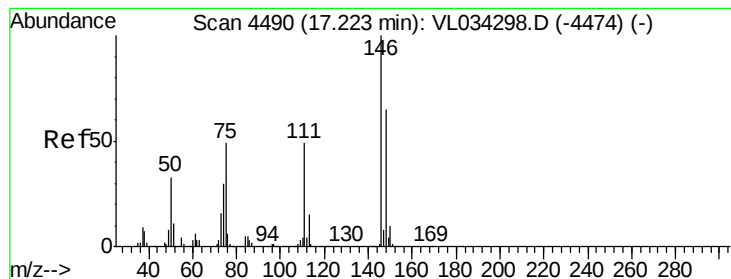
Tgt Ion:	105	Resp:	49435
Ion	Ratio	Lower	Upper
105	100		
120	32.5	37.0	55.6#
91	32.1	38.2	57.2#
77	18.0	19.0	28.4#



#75
 1,3-Dichlorobenzene
 Concen: 0.414 ppbv
 RT: 17.08 min Scan# 4445
 Delta R.T. -0.00 min
 Lab File: VL034320.D
 Acq: 17 Oct 2019 17:23

Tgt Ion:	146	Resp:	67070
Ion	Ratio	Lower	Upper
146	100		
111	51.0	24.5	73.5
148	67.4	32.3	96.8





#76

1,4-Dichlorobenzene

Concen: 0.111 ppbv

RT: 17.22 min Scan# 4490

Delta R.T. 0.00 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

Instrument :

MSVOA_L

ClientSampleId :

MDL-MDL-AIR-03-QT4-2019DL

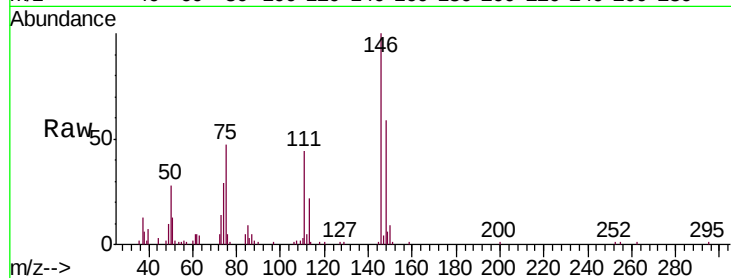
Tgt Ion:146 Resp: 17518

Ion Ratio Lower Upper

146 100

111 184.5 23.9 71.7#

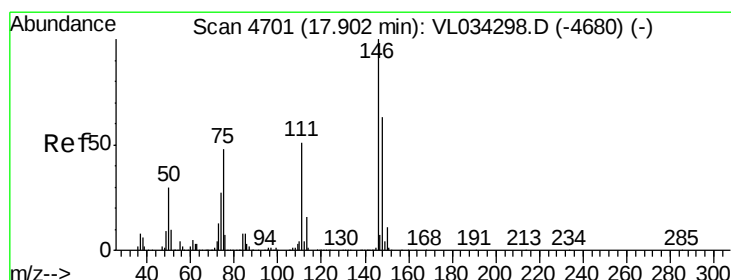
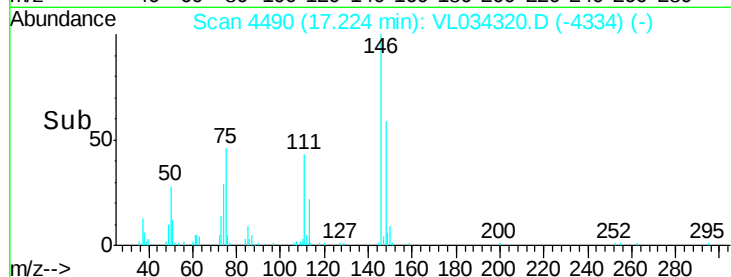
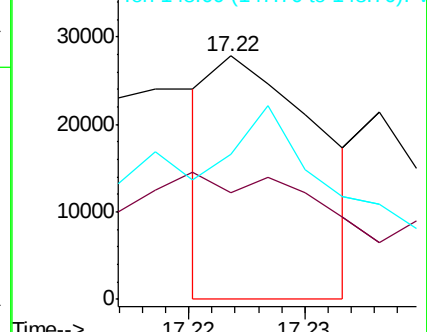
148 236.5 33.1 99.2#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#77

1,2-Dichlorobenzene

Concen: 0.381 ppbv

RT: 17.90 min Scan# 4699

Delta R.T. -0.01 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

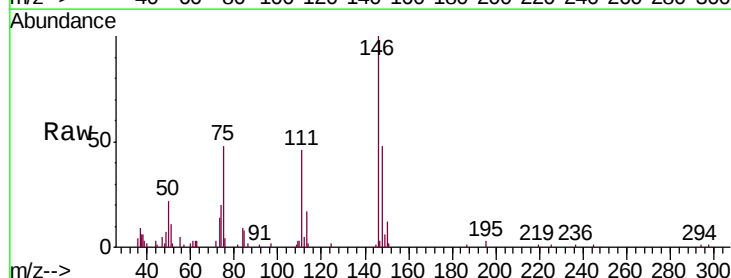
Tgt Ion:146 Resp: 60502

Ion Ratio Lower Upper

146 100

111 55.6 25.1 75.3

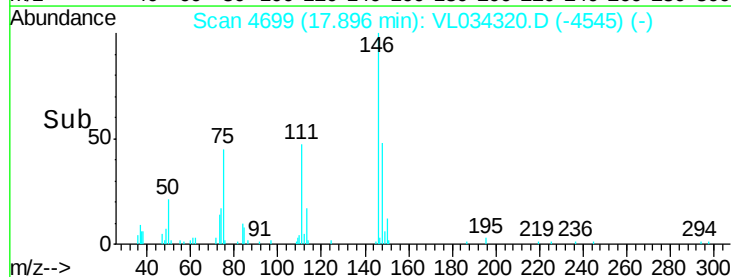
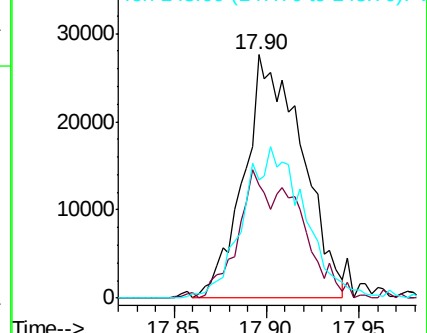
148 65.6 32.3 96.8

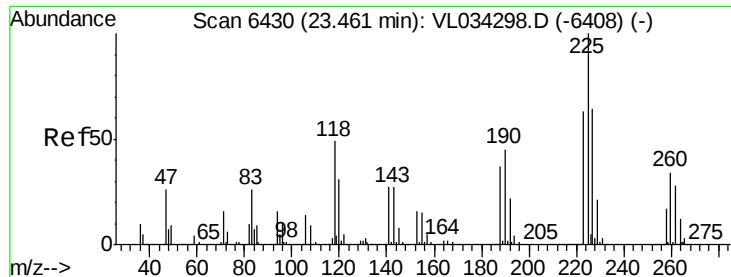


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#78

Hexachloro-1,3-Butadiene

Concen: 0.103 ppbv

RT: 23.46 min Scan# 6430

Delta R.T. 0.00 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

Instrument :

MSVOA_L

ClientSampleId :

MDL-MDL-AIR-03-QT4-2019DL

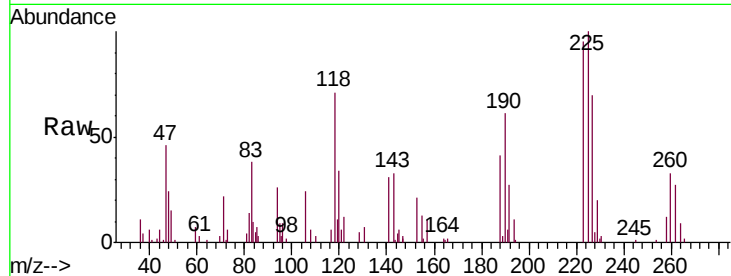
Tgt Ion:225 Resp: 13546

Ion Ratio Lower Upper

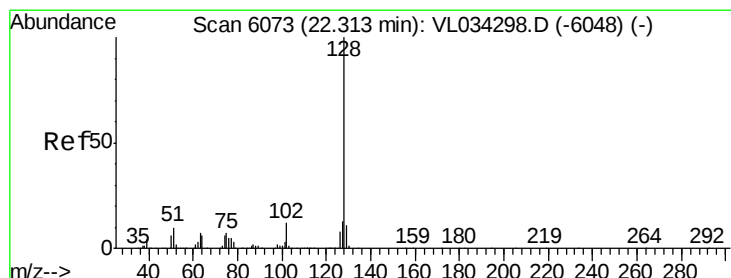
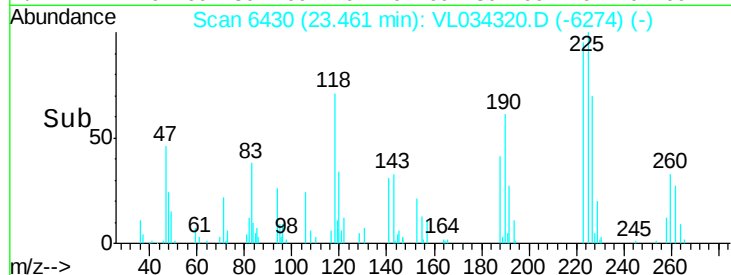
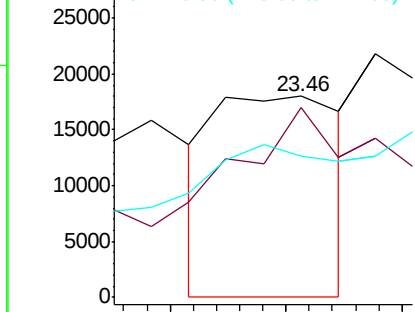
225 100

223 260.2 50.8 76.2#

227 0.0 51.5 77.3#



Abundance Ion 224.90 (224.60 to 225.60): V
Ion 222.90 (222.60 to 223.60): V
Ion 226.90 (226.60 to 227.60): V



#79

Naphthalene

Concen: 0.060 ppbv

RT: 22.31 min Scan# 6073

Delta R.T. 0.00 min

Lab File: VL034320.D

Acq: 17 Oct 2019 17:23

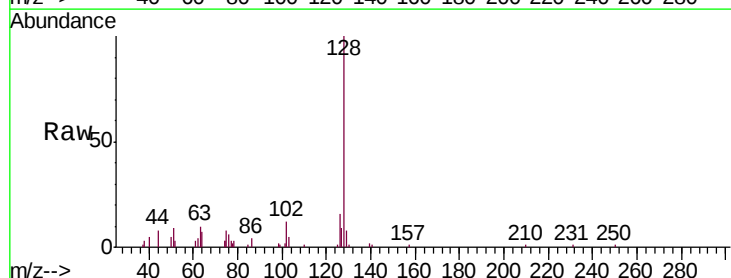
Tgt Ion:128 Resp: 11928

Ion Ratio Lower Upper

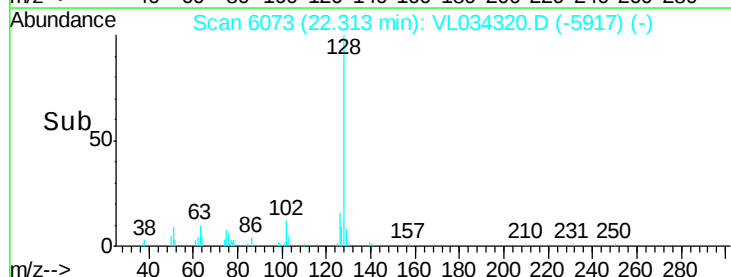
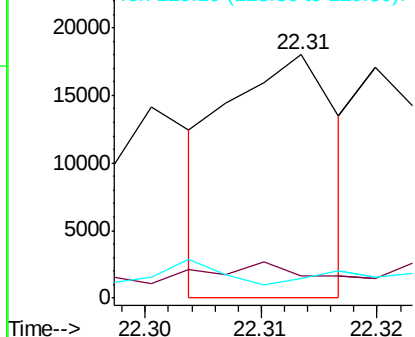
128 100

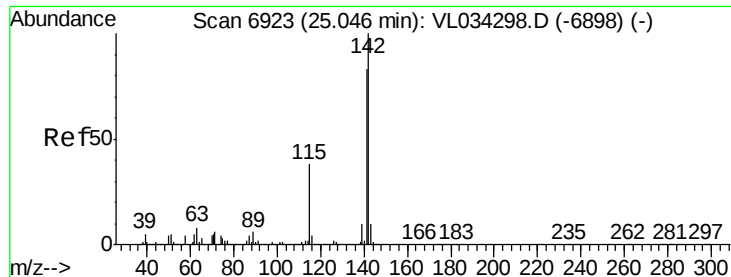
127 0.2 10.2 15.4#

129 0.0 8.9 13.3#



Abundance Ion 128.10 (127.80 to 128.80): V
Ion 127.10 (126.80 to 127.80): V
Ion 129.10 (128.80 to 129.80): V

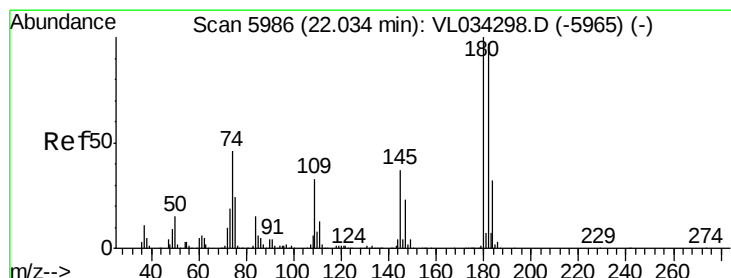
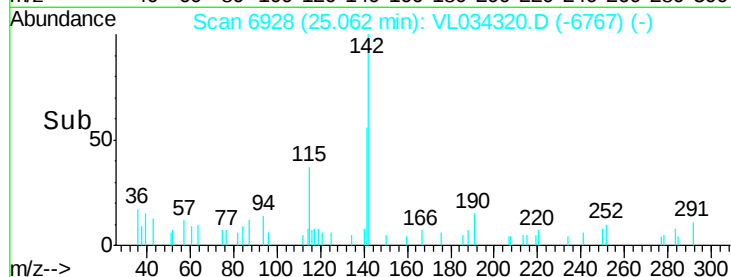
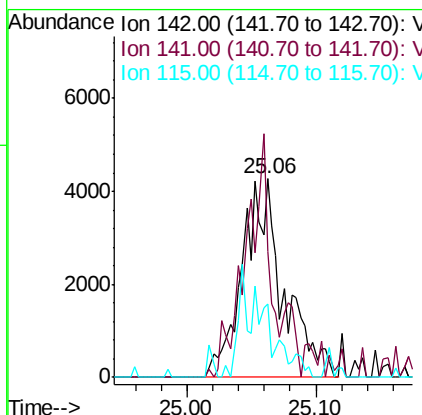
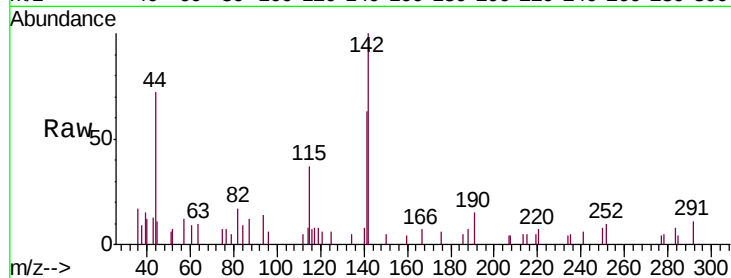




#80
Naphthalene, 2-methyl-
Concen: 0.166 ppbv
RT: 25.06 min Scan# 6928
Delta R.T. 0.02 min
Lab File: VL034320.D
Acq: 17 Oct 2019 17:23

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT4-2019DL

Tgt Ion:142 Resp: 9489
Ion Ratio Lower Upper
142 100
141 85.8 65.7 98.5
115 39.6 30.9 46.3



#81
1,2,4-Trichlorobenzene
Concen: 0.089 ppbv
RT: 22.03 min Scan# 5986
Delta R.T. 0.00 min
Lab File: VL034320.D
Acq: 17 Oct 2019 17:23

Tgt Ion:180 Resp: 11415
Ion Ratio Lower Upper
180 100
182 0.0 77.8 116.8#
184 0.0 25.4 38.2#

