

Data File : VL034011.D
Acq On : 8 Jul 2019 14:48
Operator : SY/AP
Sample : K3591-15 0.4 PPB
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT3-2019

Quant Time: Jul 09 03:47:46 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL070219AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 02 19:31:31 2019
QLast Update : Tue Jul 02 19:31:31 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.72	49	1021500	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.25	114	2958653	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.20	117	2744912	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.53	95	2190016	9.35	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.50%

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	3.06	85	119166	0.565	ppbv	99
3) Chlorodifluoromethane	2.99	51	58879	0.467	ppbv	98
4) Chloromethane	3.15	50	32484	0.448	ppbv	95
5) Vinyl Chloride	3.27	62	35093	0.430	ppbv	100
6) Bromomethane	3.49	94	21798	0.453	ppbv	85
7) Chloroethane	3.58	64	13262	0.455	ppbv #	86
8) Dichlorotetrafluoroethane	3.20	85	93003	0.453	ppbv	89
9) Propene	3.01	41	19414	0.418	ppbv	95
10) Heptane	8.20	43	19107	0.164	ppbv #	23
11) Trichlorofluoromethane	3.98	101	102613	0.433	ppbv	88
12) 1,1,2-Trichlorotrifluoroet	4.52	101	46171	0.275	ppbv #	53
13) Ethanol	3.65	45	2670	0.185	ppbv #	1
14) Bromoethene	3.77	108	27390	0.437	ppbv	98
15) Acetone	3.89	43	86552	0.504	ppbv	91
16) 1,3-Butadiene	3.34	39	21680	0.357	ppbv	87
17) tert-Butyl alcohol	4.35	59	52940	0.387	ppbv #	90
18) 1,1-Dichloroethene	4.33	96	24886	0.333	ppbv	95
19) Isopropyl Alcohol	4.01	45	46796	0.406	ppbv #	86
20) Methylene Chloride	4.38	84	33545	0.448	ppbv	94
21) Allyl Chloride	4.45	41	40115	0.375	ppbv	90
22) trans-1,2-Dichloroethene	4.93	96	19872	0.279	ppbv	86
23) Vinyl Acetate	5.12	43	66435	0.388	ppbv	98
24) 1,1-Dichloroethane	5.06	63	68750	0.453	ppbv #	96
25) Ethyl Acetate	5.74	43	91962	0.391	ppbv #	97
26) Hexane	5.74	57	23032	0.214	ppbv #	1
27) Carbon Disulfide	4.59	76	68583	0.375	ppbv #	87
28) Methyl tert-Butyl Ether	5.09	73	70357	0.386	ppbv	97
29) Chloroform	5.81	83	86310	0.427	ppbv	85
30) Cyclohexane	7.21	84	7582	0.091	ppbv #	1
31) cis-1,2-Dichloroethene	5.60	61	18273	0.176	ppbv	98
32) 1,1,1-Trichloroethane	6.59	97	78427	0.383	ppbv	95
34) 2-Butanone	5.31	43	54809	0.350	ppbv	100
35) Carbon Tetrachloride	7.10	117	92571	0.395	ppbv	88
36) Benzene	6.97	78	73942	0.319	ppbv #	95
37) 1,2-Dichloroethane	6.38	62	68526	0.402	ppbv	99
38) Trichloroethene	7.92	130	17214	0.167	ppbv	87
39) 1,2-Dichloropropane	7.70	63	12618	0.147	ppbv	97
41) Tetrahydrofuran	6.14	42	10382	0.135	ppbv #	35
42) Bromodichloromethane	7.88	83	46300	0.202	ppbv #	78
43) Methyl Methacrylate	8.09	69	6597	0.075	ppbv #	1
44) 2,2,4-Trimethylpentane	7.95	57	66817	0.167	ppbv #	38

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MDL-MDL-AIR-03-QT3-2019

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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Jul 02 19:31:31 2019
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

45) t-1,3-Dichloropropene	9.37	75	12750	0.111	ppbv #	72
46) cis-1,3-Dichloropropene	8.79	75	13712	0.103	ppbv #	67
47) 1,1,2-Trichloroethane	9.57	97	29654	0.274	ppbv	97
48) Dibromochloromethane	10.41	129	61066	0.296	ppbv	91
49) Bromoform	13.16	173	61358	0.348	ppbv	97
52) Tetrachloroethene	11.32	164	10031	0.101	ppbv	90
53) Toluene	9.91	91	67674	0.255	ppbv	97
54) 1,2-Dibromoethane	10.72	107	54866	0.343	ppbv	95
56) 1,1,1,2-Tetrachloroethane	12.25	131	12954	0.106	ppbv #	10
57) Chlorobenzene	12.25	112	46946	0.215	ppbv	87
58) Ethyl Benzene	12.84	91	9913	0.030	ppbv	90
59) m/p-Xylene	13.10	91	25305	0.085	ppbv #	1
60) o-Xylene	13.80	91	94577	0.316	ppbv	96
61) Styrene	13.64	104	16764	0.085	ppbv #	26
62) Isopropylbenzene	14.78	105	135682	0.295	ppbv	98
63) 1,1,2,2-Tetrachloroethane	13.80	83	41111	0.178	ppbv #	25
64) n-propylbenzene	15.69	120	29971	0.251	ppbv	69
65) tert-Butylbenzene	16.87	119	108283	0.277	ppbv	87
66) Benzyl Chloride	17.11	91	32196	0.161	ppbv #	68
67) sec-Butylbenzene	17.42	105	100711	0.184	ppbv #	59
69) p-Isopropyltoluene	17.78	119	125431	0.277	ppbv	96
70) n-Butylbenzene	18.68	91	132014	0.278	ppbv	95
71) 2-Chlorotoluene	15.57	91	34846	0.104	ppbv #	1
72) 4-Ethyltoluene	15.96	105	83160	0.217	ppbv #	88
73) 1,3,5-Trimethylbenzene	16.11	105	52578	0.147	ppbv #	72
74) 1,2,4-Trimethylbenzene	16.88	105	80988	0.205	ppbv #	82
75) 1,3-Dichlorobenzene	17.12	146	96515	0.384	ppbv	93
76) 1,4-Dichlorobenzene	17.26	146	37666	0.159	ppbv #	13
77) 1,2-Dichlorobenzene	17.95	146	87215	0.375	ppbv	96
78) Hexachloro-1,3-Butadiene	23.50	225	33472	0.169	ppbv #	18
79) Naphthalene	22.36	128	44030	0.132	ppbv	97
80) Naphthalene,2-methyl-	25.08	142	37913	0.313	ppbv	96
81) 1,2,4-Trichlorobenzene	22.09	180	42468	0.199	ppbv #	35

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

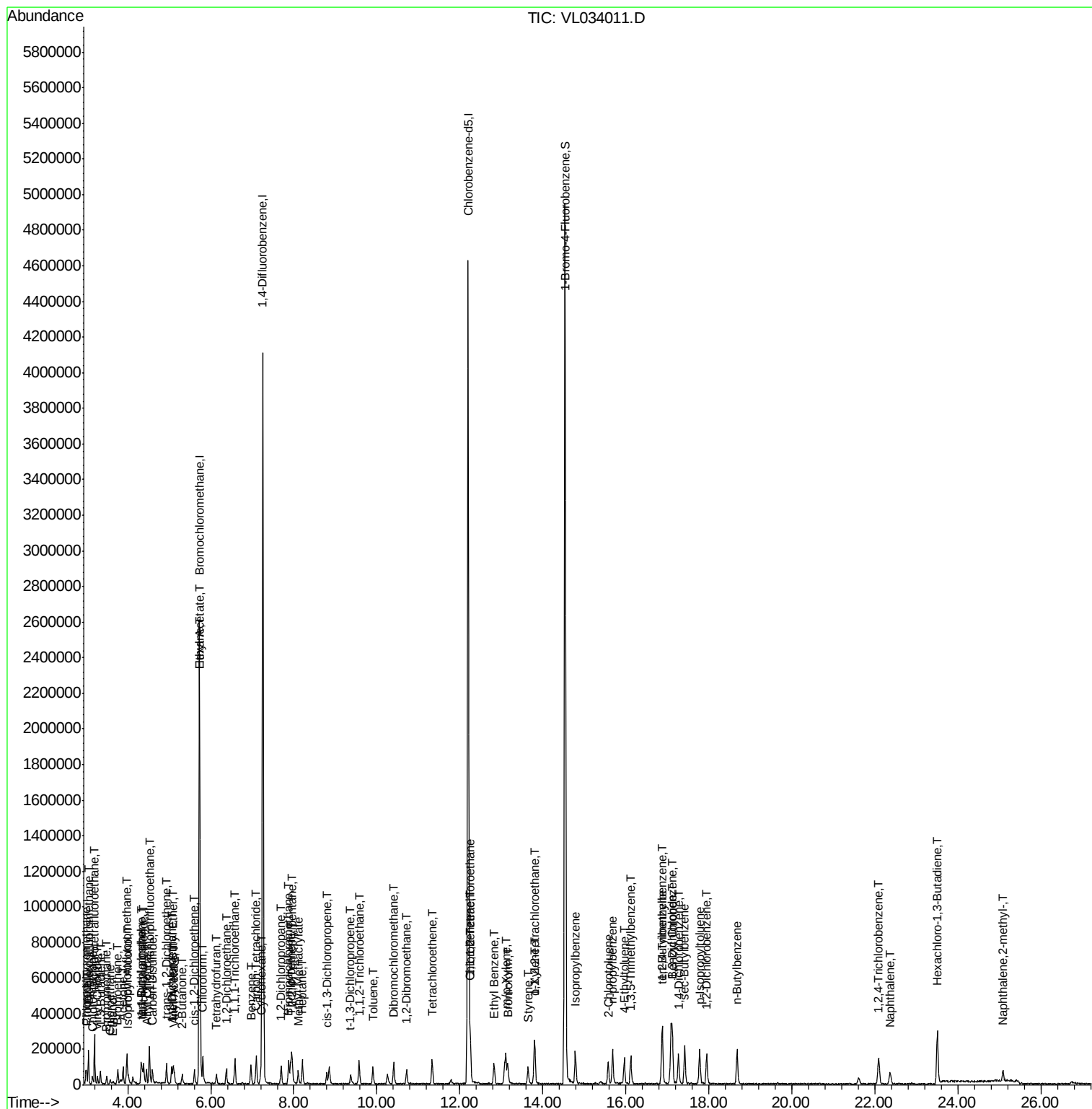
Data File : VL034011.D

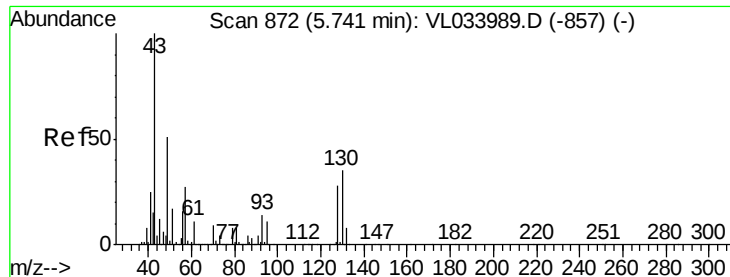
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Instrument :
MSVOA_L

ClientSampleId :
MDL-MDL-AIR-03-OT3-2019

Quant Time: Jul 09 03:47:46 2019
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Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Jul 02 19:31:31 2019
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.72 min Scan# 867

Delta R.T. -0.02 min

Lab File: VL034011.D

Acq: 8 Jul 2019 14:48

Instrument :

MSVOA_L

ClientSampleId :

MDL-MDL-AIR-03-QT3-2019

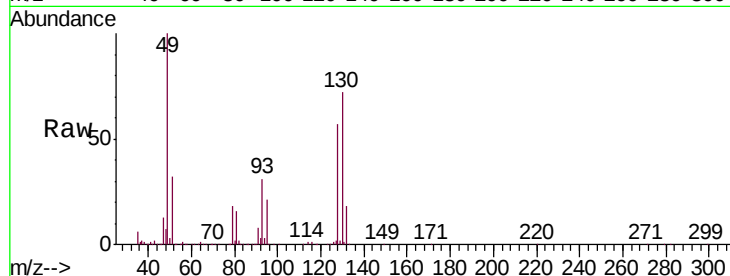
Tgt Ion: 49 Resp: 1021500

Ion Ratio Lower Upper

49 100

128 59.4 27.9 83.6

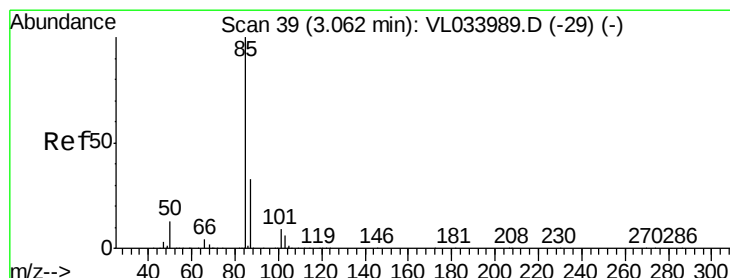
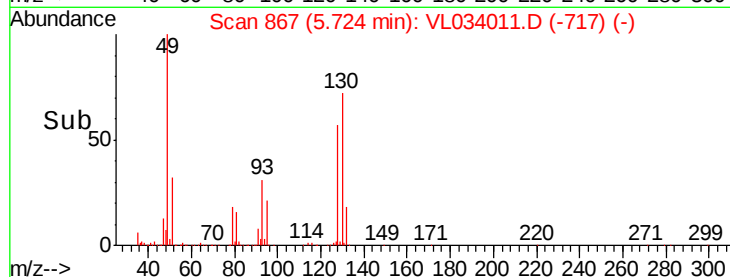
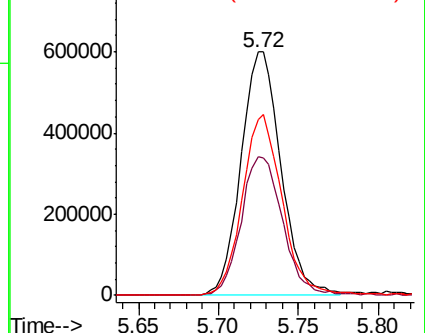
130 73.7 35.8 107.4



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: 0.565 ppbv

RT: 3.06 min Scan# 37

Delta R.T. -0.01 min

Lab File: VL034011.D

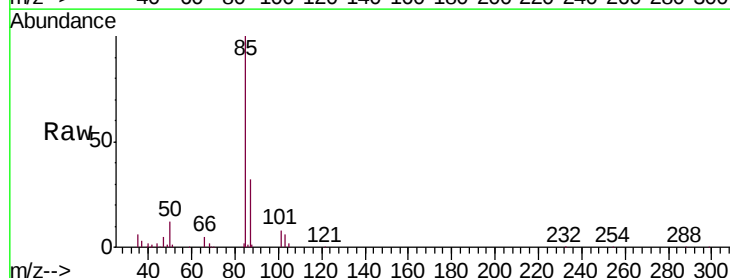
Acq: 8 Jul 2019 14:48

Tgt Ion: 85 Resp: 119166

Ion Ratio Lower Upper

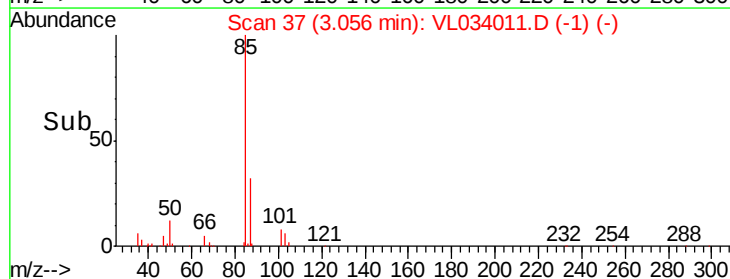
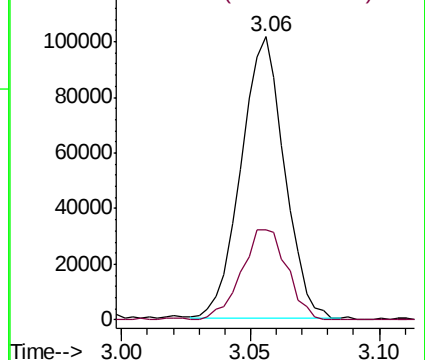
85 100

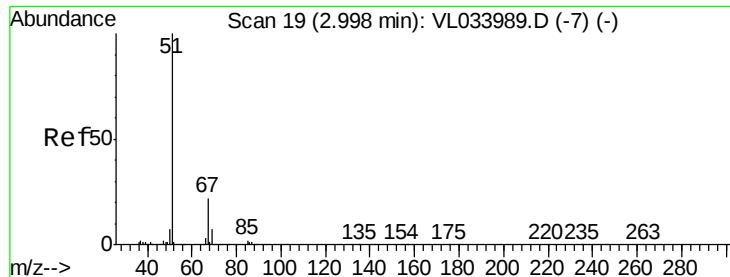
87 31.9 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.467 ppbv

RT: 2.99 min Scan# 18

Delta R.T. -0.00 min

Lab File: VL034011.D

Acq: 8 Jul 2019 14:48

Instrument :

MSVOA_L

ClientSampleId :

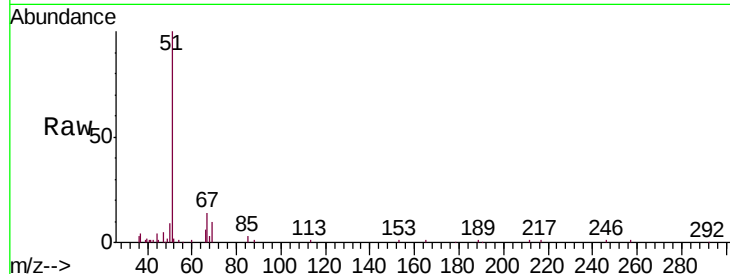
MDL-MDL-AIR-03-QT3-2019

Tgt Ion: 51 Resp: 58879

Ion Ratio Lower Upper

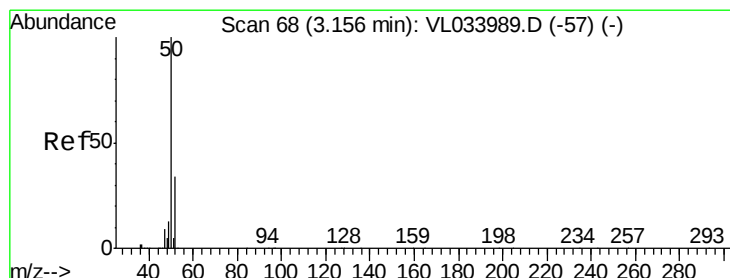
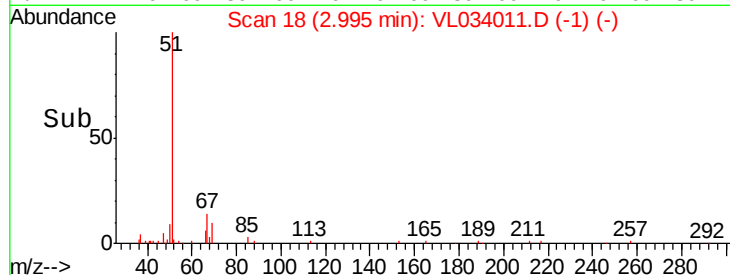
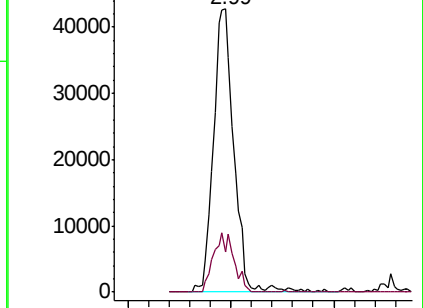
51 100

67 20.6 17.3 25.9



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.448 ppbv

RT: 3.15 min Scan# 65

Delta R.T. -0.01 min

Lab File: VL034011.D

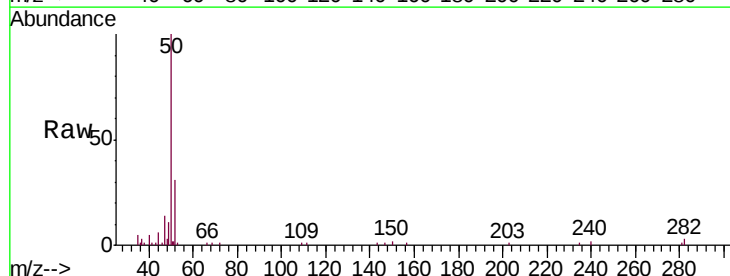
Acq: 8 Jul 2019 14:48

Tgt Ion: 50 Resp: 32484

Ion Ratio Lower Upper

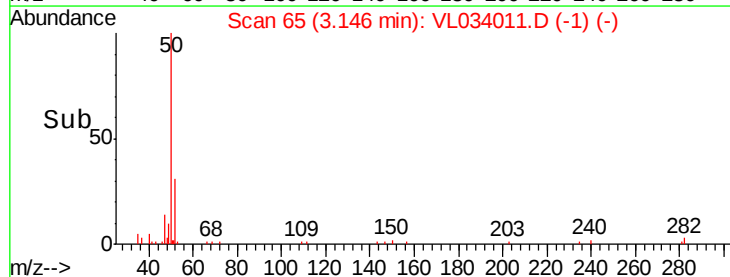
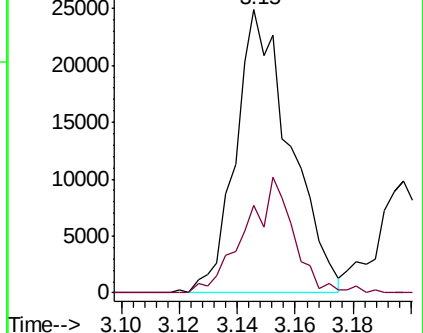
50 100

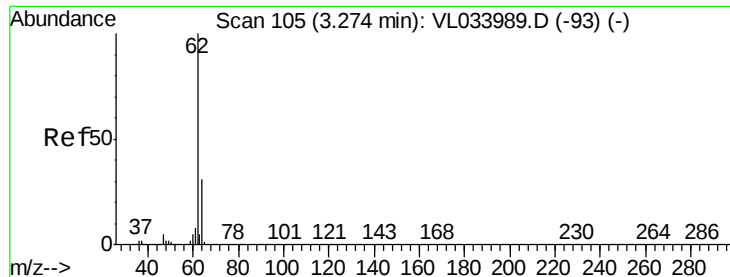
52 31.1 27.4 41.0



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#5

Vinyl Chloride

Concen: 0.430 ppbv

RT: 3.27 min Scan# 103

Delta R.T. -0.01 min

Lab File: VL034011.D

Acq: 8 Jul 2019 14:48

Instrument :

MSVOA_L

ClientSampleId :

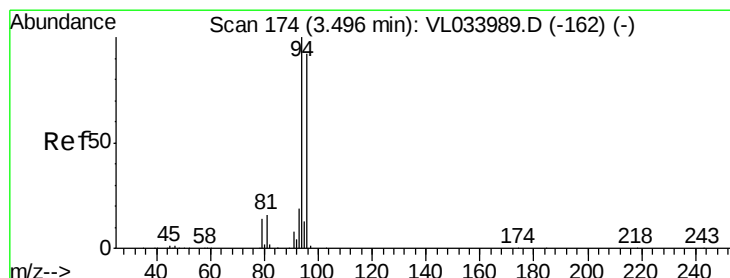
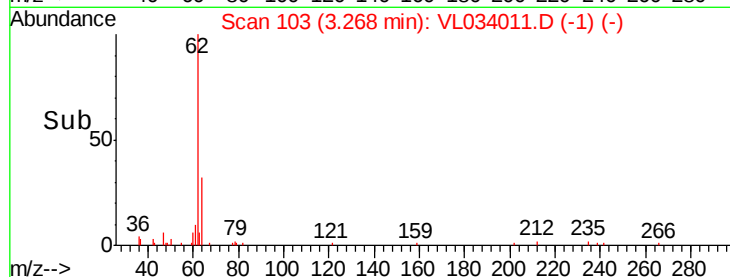
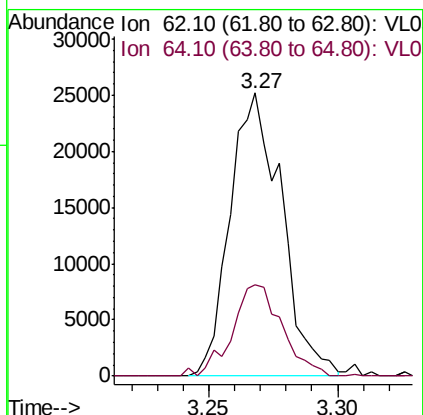
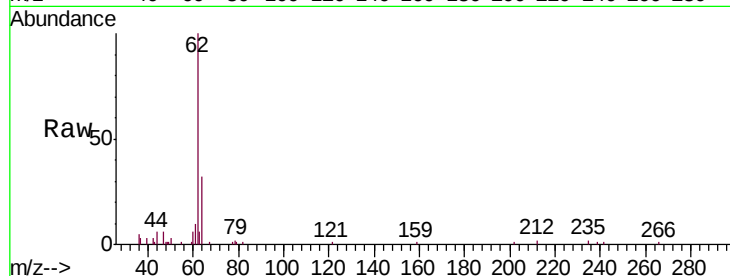
MDL-MDL-AIR-03-QT3-2019

Tgt Ion: 62 Resp: 35093

Ion Ratio Lower Upper

62 100

64 30.4 24.4 36.6



#6

Bromomethane

Concen: 0.453 ppbv

RT: 3.49 min Scan# 173

Delta R.T. -0.00 min

Lab File: VL034011.D

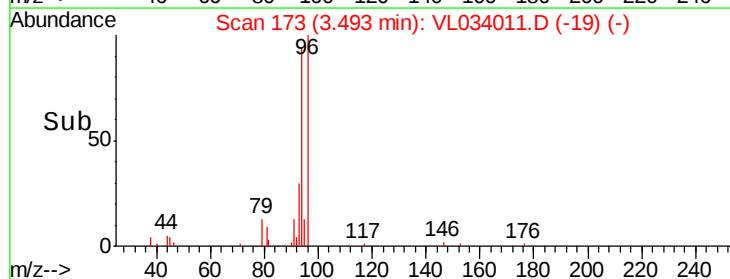
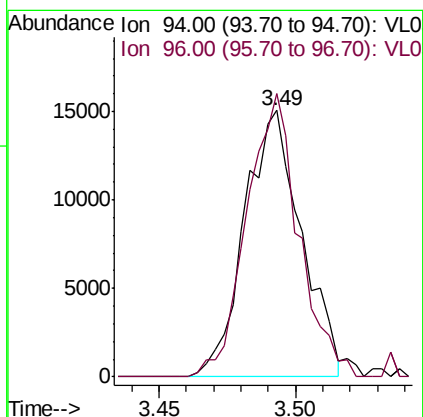
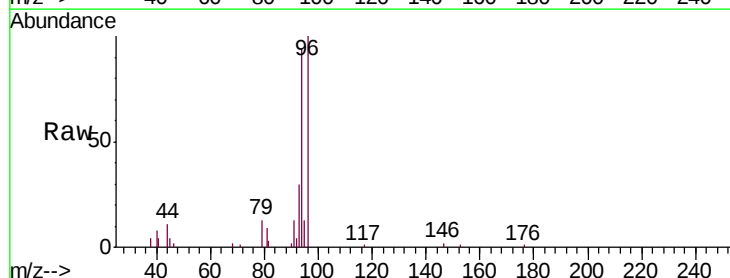
Acq: 8 Jul 2019 14:48

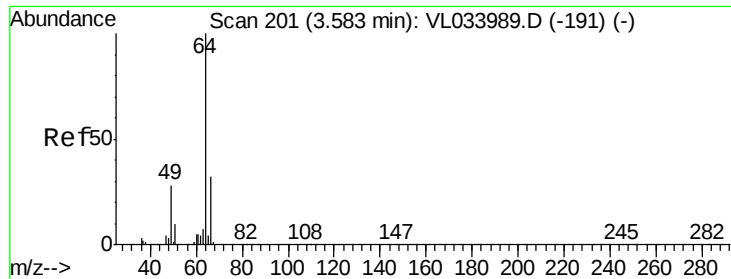
Tgt Ion: 94 Resp: 21798

Ion Ratio Lower Upper

94 100

96 106.3 73.8 110.8





#7

Chloroethane

Concen: 0.455 ppbv

RT: 3.58 min Scan# 199

Delta R.T. -0.01 min

Lab File: VL034011.D

Acq: 8 Jul 2019 14:48

Instrument :

MSVOA_L

ClientSampleId :

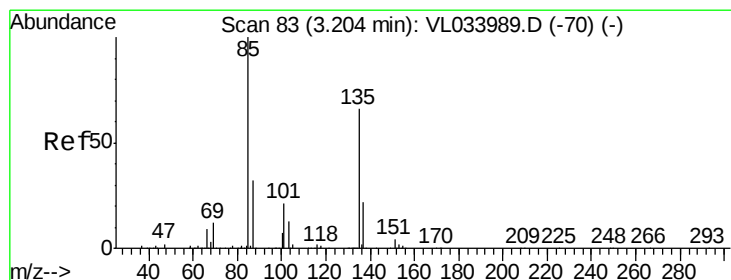
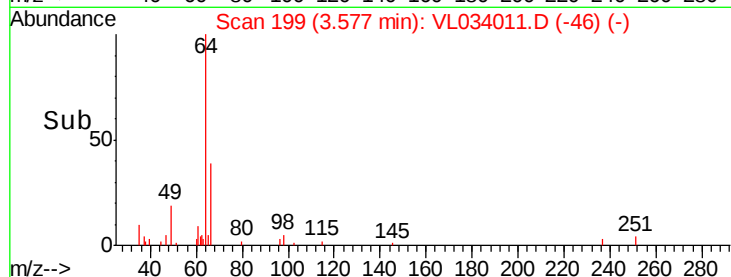
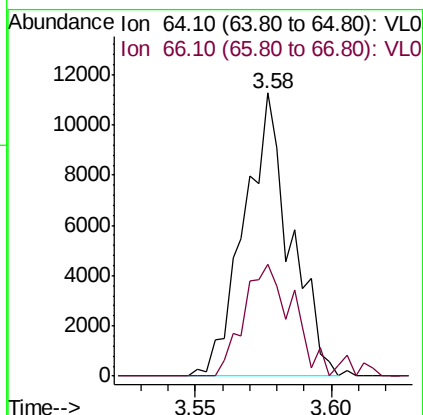
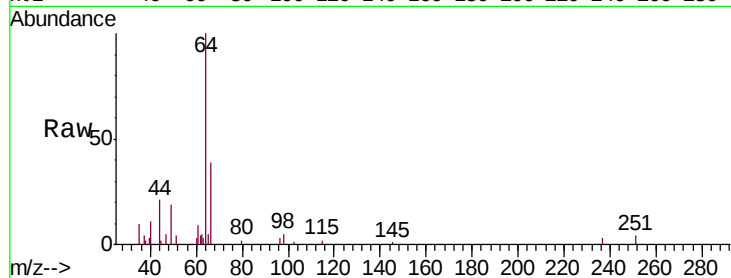
MDL-MDL-AIR-03-QT3-2019

Tgt Ion: 64 Resp: 13262

Ion Ratio Lower Upper

64 100

66 39.3 25.3 37.9#



#8

Dichlorotetrafluoroethane

Concen: 0.453 ppbv

RT: 3.20 min Scan# 81

Delta R.T. -0.01 min

Lab File: VL034011.D

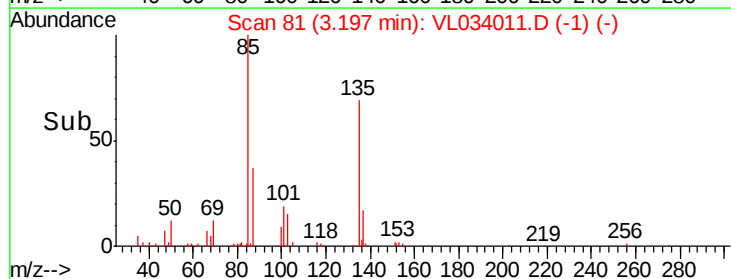
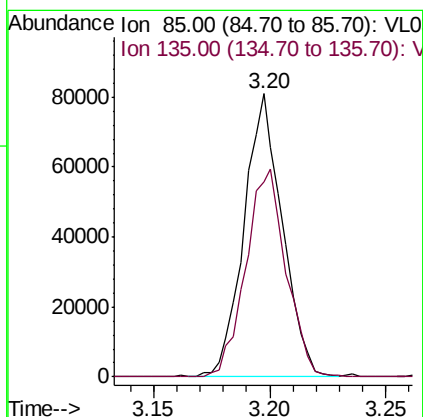
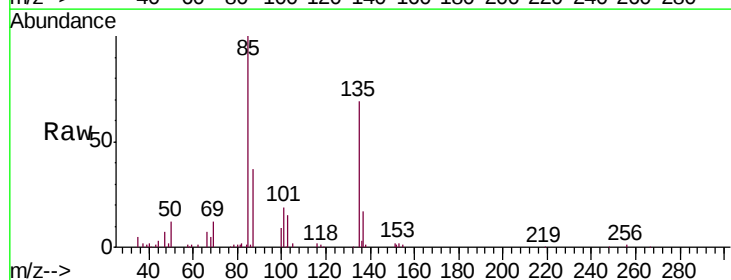
Acq: 8 Jul 2019 14:48

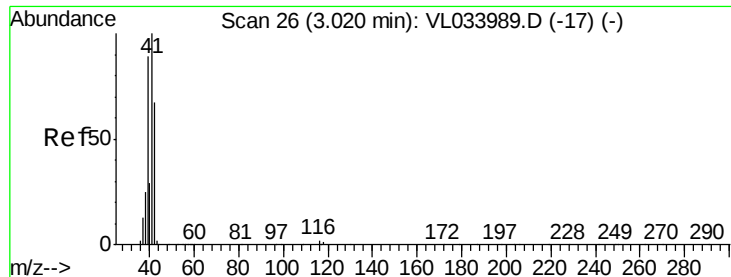
Tgt Ion: 85 Resp: 93003

Ion Ratio Lower Upper

85 100

135 77.3 55.0 82.4





#9

Propene

Concen: 0.418 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.01 min

Lab File: VL034011.D

Acq: 8 Jul 2019 14:48

Instrument :

MSVOA_L

ClientSampleId :

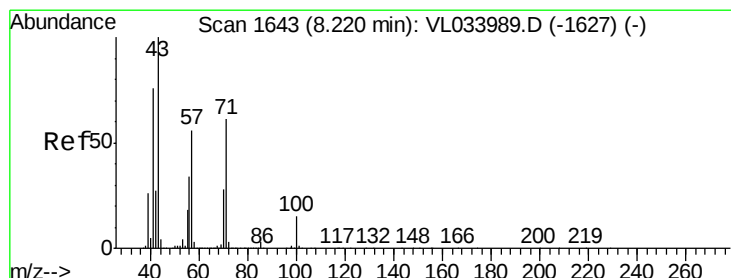
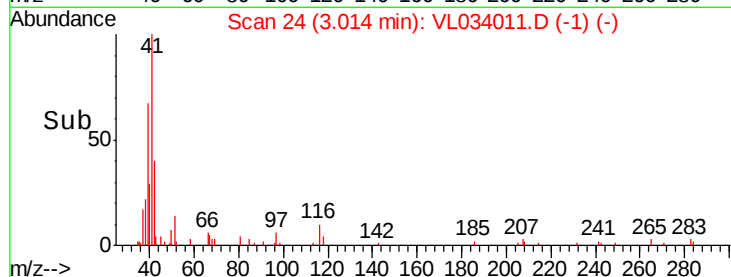
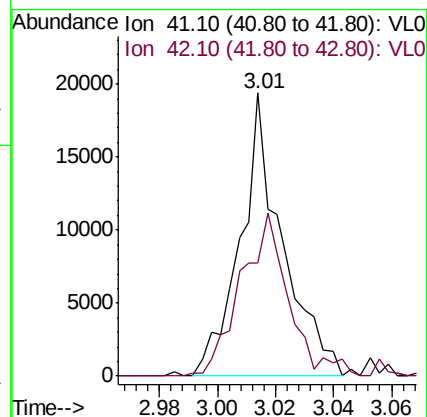
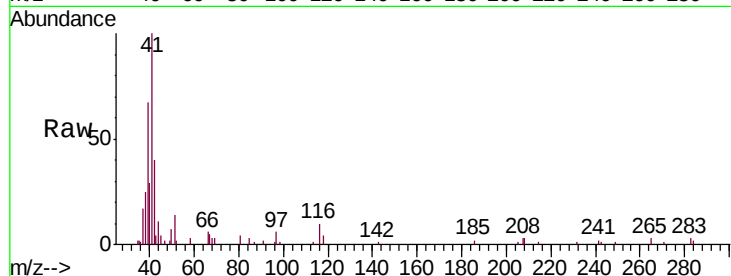
MDL-MDL-AIR-03-QT3-2019

Tgt Ion: 41 Resp: 19414

Ion Ratio Lower Upper

41 100

42 67.4 57.1 85.7



#10

Heptane

Concen: 0.164 ppbv

RT: 8.20 min Scan# 1638

Delta R.T. -0.02 min

Lab File: VL034011.D

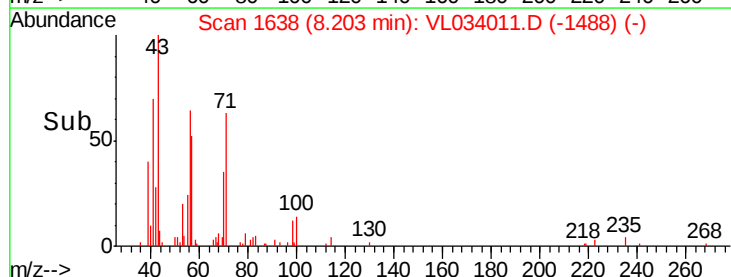
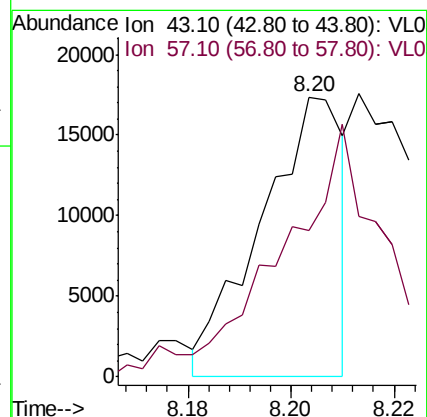
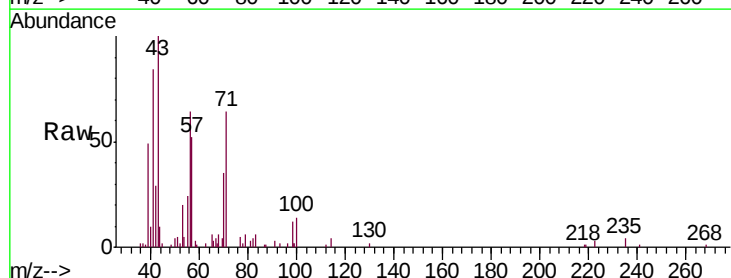
Acq: 8 Jul 2019 14:48

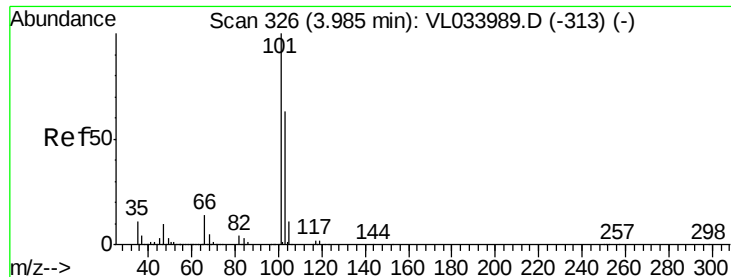
Tgt Ion: 43 Resp: 19107

Ion Ratio Lower Upper

43 100

57 0.0 44.6 66.8#

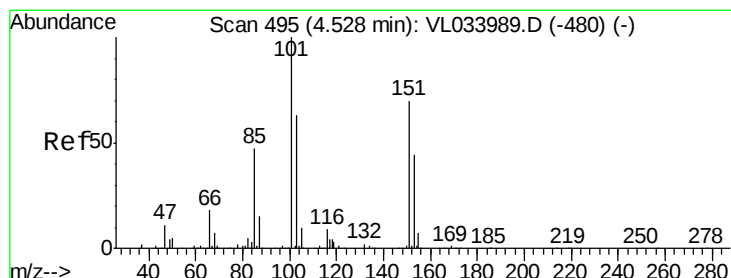
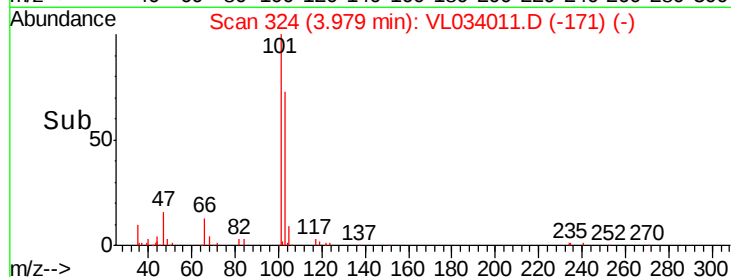
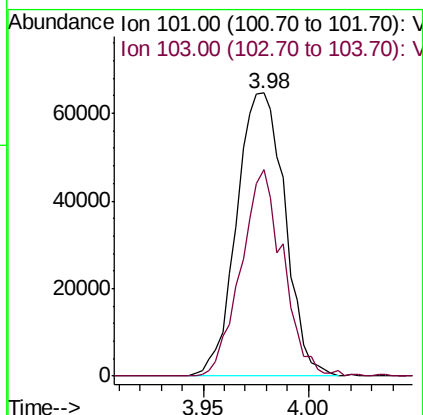
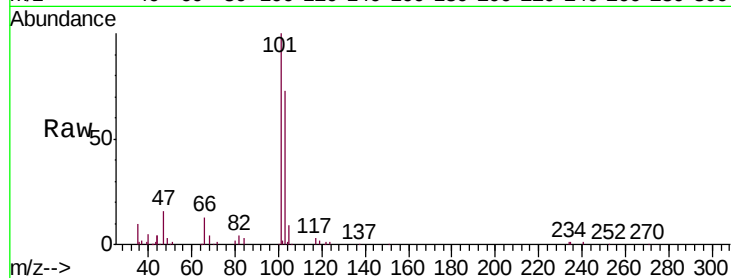




#11
 Trichlorofluoromethane
 Concen: 0.433 ppbv
 RT: 3.98 min Scan# 324
 Delta R.T. -0.01 min
 Lab File: VL034011.D
 Acq: 8 Jul 2019 14:48

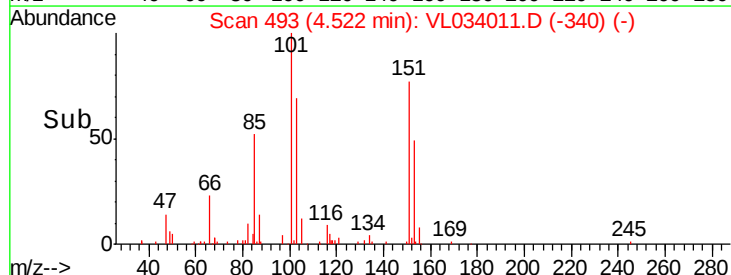
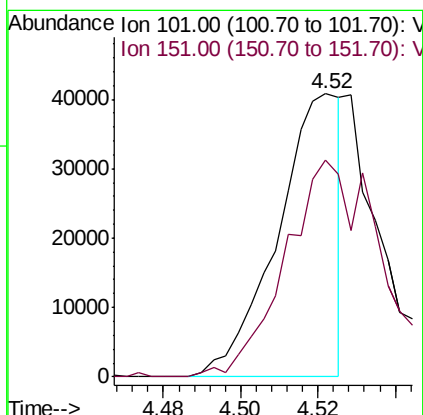
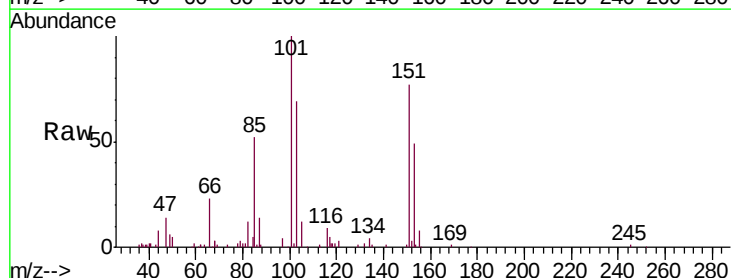
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT3-2019

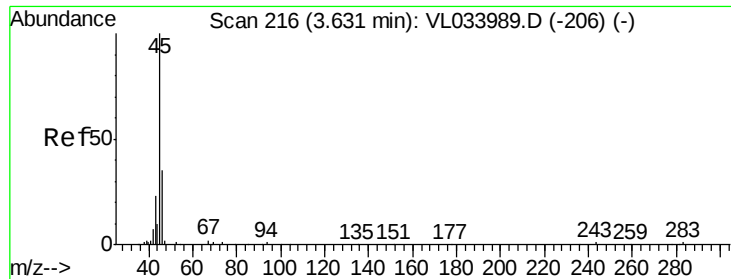
Tgt Ion:101 Resp: 102613
 Ion Ratio Lower Upper
 101 100
 103 73.0 50.8 76.2



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.275 ppbv
 RT: 4.52 min Scan# 493
 Delta R.T. -0.01 min
 Lab File: VL034011.D
 Acq: 8 Jul 2019 14:48

Tgt Ion:101 Resp: 46171
 Ion Ratio Lower Upper
 101 100
 151 113.7 59.0 88.4#

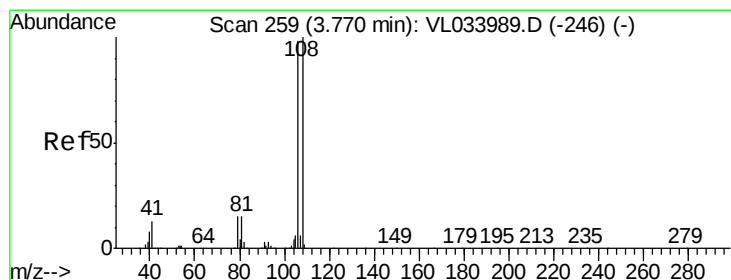
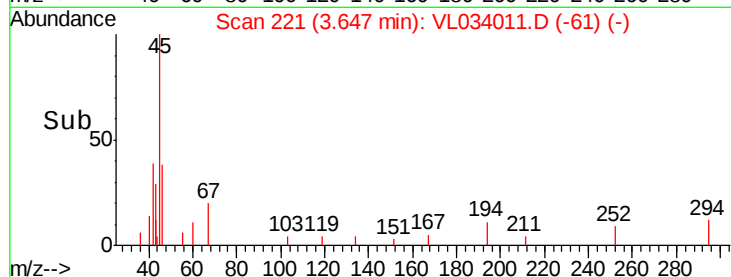
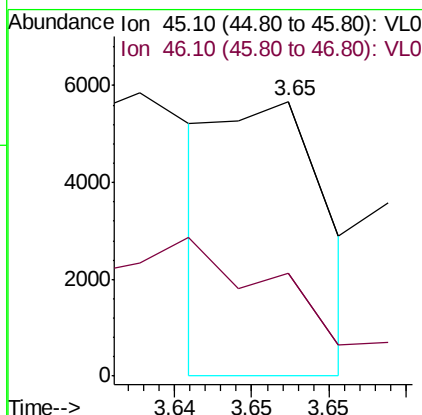
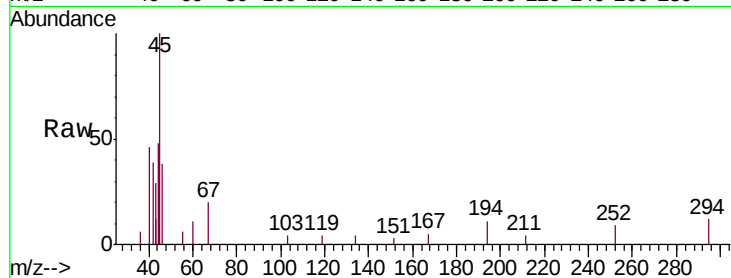




#13
Ethanol
Concen: 0.185 ppbv
RT: 3.65 min Scan# 221
Delta R.T. 0.02 min
Lab File: VL034011.D
Acq: 8 Jul 2019 14:48

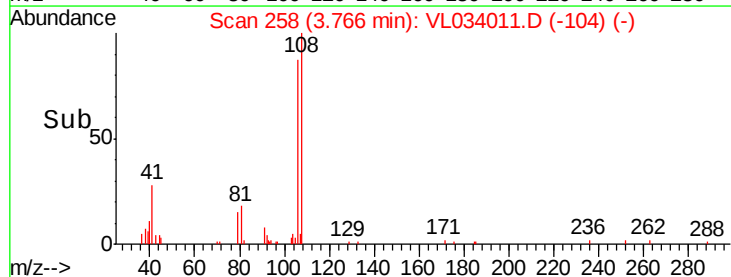
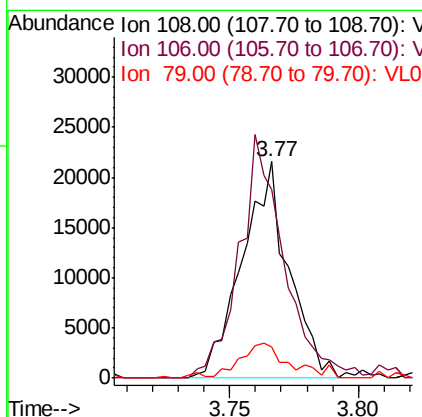
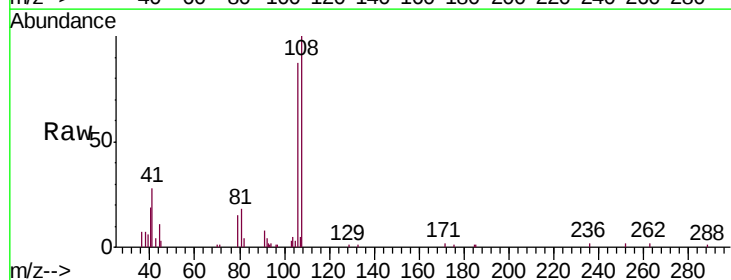
Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT3-2019

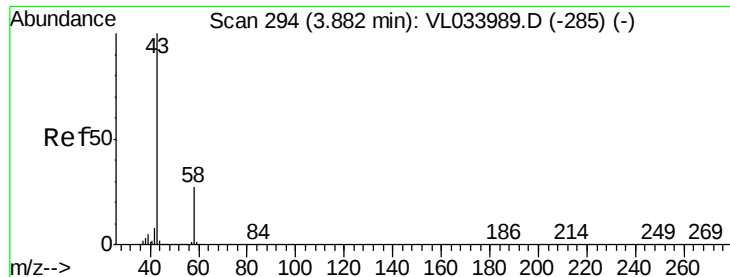
Tgt Ion: 45 Resp: 2670
Ion Ratio Lower Upper
45 100
46 183.5 16.2 64.6#



#14
Bromoethene
Concen: 0.437 ppbv
RT: 3.77 min Scan# 258
Delta R.T. -0.00 min
Lab File: VL034011.D
Acq: 8 Jul 2019 14:48

Tgt Ion: 108 Resp: 27390
Ion Ratio Lower Upper
108 100
106 109.9 85.6 128.4
79 17.6 14.0 21.0





#15

Acetone

Concen: 0.504 ppbv

RT: 3.89 min Scan# 295

Delta R.T. 0.00 min

Lab File: VL034011.D

Acq: 8 Jul 2019 14:48

Instrument :

MSVOA_L

ClientSampleId :

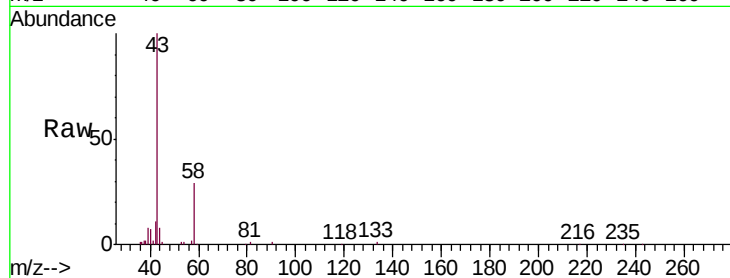
MDL-MDL-AIR-03-QT3-2019

Tgt Ion: 43 Resp: 86552

Ion Ratio Lower Upper

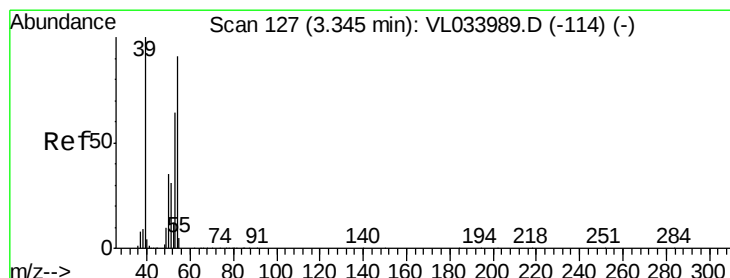
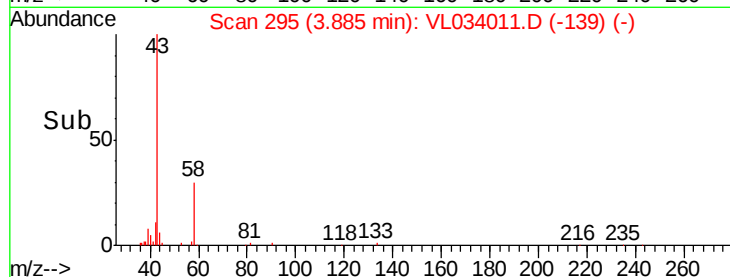
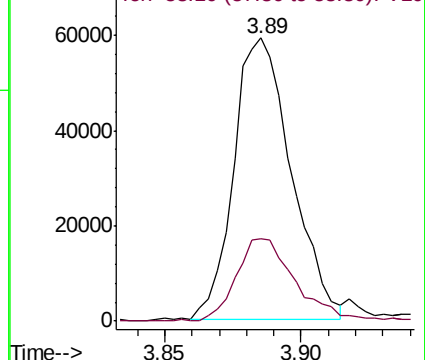
43 100

58 31.3 21.4 32.0



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.357 ppbv

RT: 3.34 min Scan# 125

Delta R.T. -0.01 min

Lab File: VL034011.D

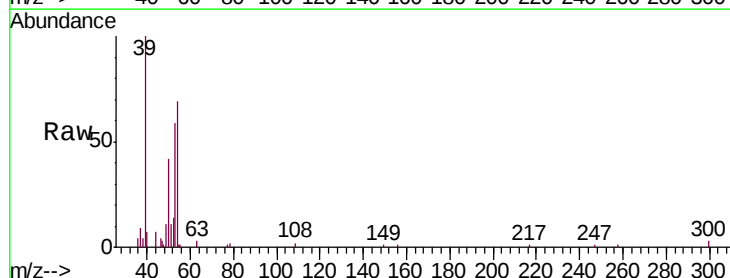
Acq: 8 Jul 2019 14:48

Tgt Ion: 39 Resp: 21680

Ion Ratio Lower Upper

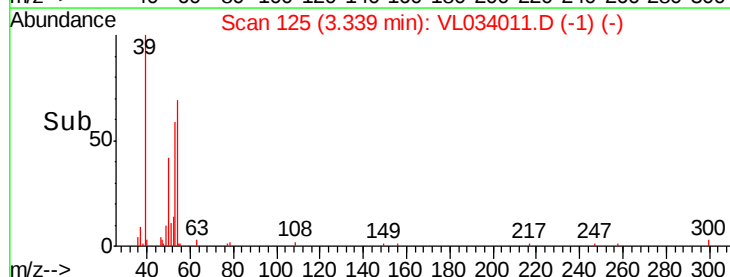
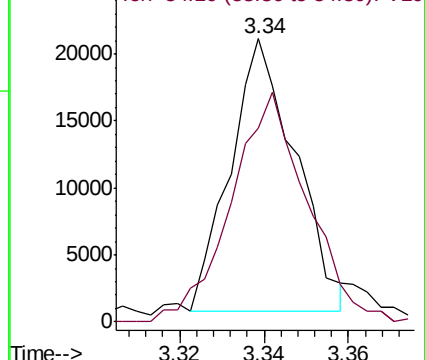
39 100

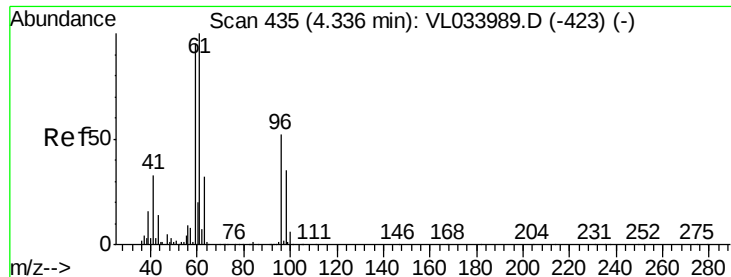
54 101.2 71.4 107.2



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0

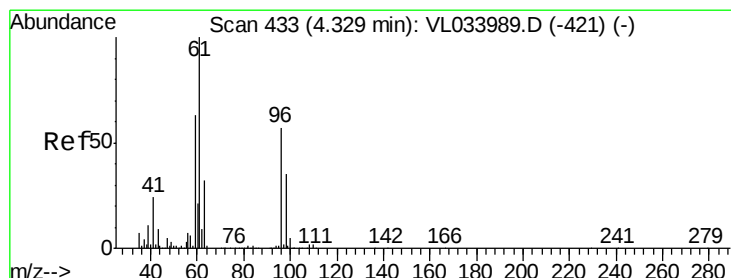
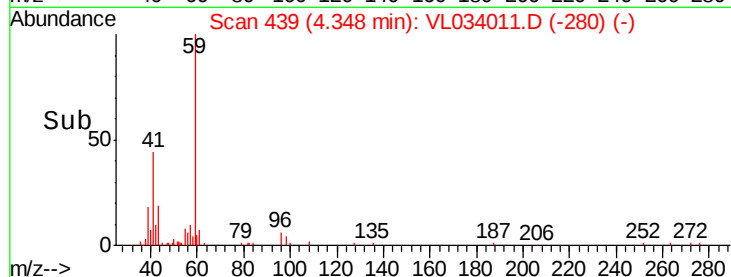
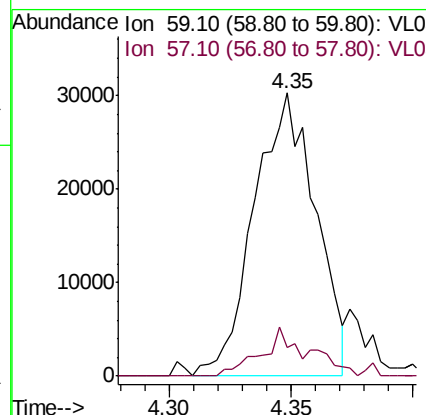
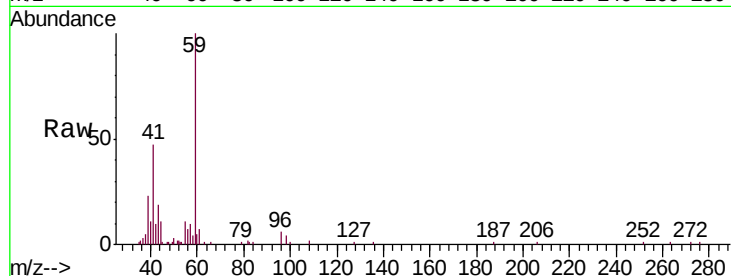




#17
 tert-Butyl alcohol
 Concen: 0.387 ppbv
 RT: 4.35 min Scan# 439
 Delta R.T. 0.01 min
 Lab File: VL034011.D
 Acq: 8 Jul 2019 14:48

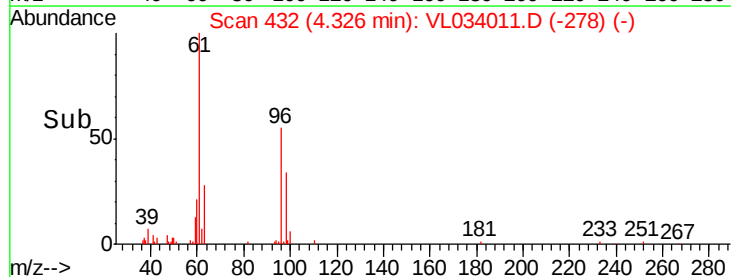
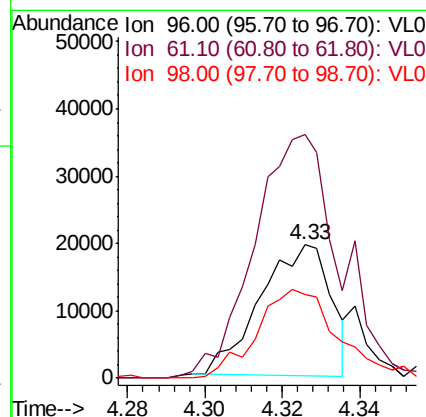
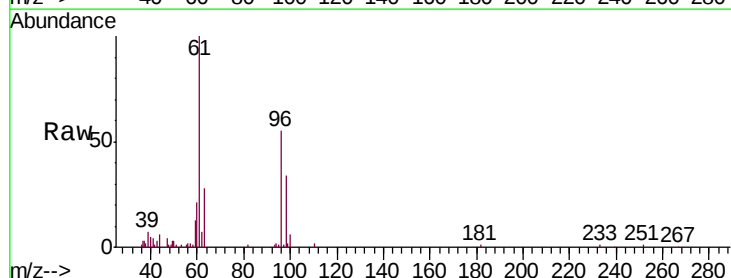
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT3-2019

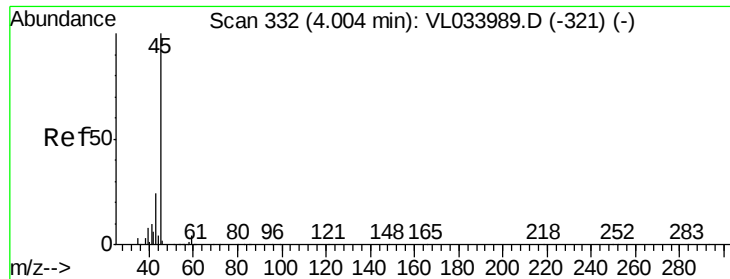
Tgt Ion: 59 Resp: 52940
 Ion Ratio Lower Upper
 59 100
 57 14.0 8.2 12.2#



#18
 1,1-Dichloroethene
 Concen: 0.333 ppbv
 RT: 4.33 min Scan# 432
 Delta R.T. -0.00 min
 Lab File: VL034011.D
 Acq: 8 Jul 2019 14:48

Tgt Ion: 96 Resp: 24886
 Ion Ratio Lower Upper
 96 100
 61 182.8 139.4 209.0
 98 64.3 49.4 74.0





#19

Isopropyl Alcohol

Concen: 0.406 ppbv

RT: 4.01 min Scan# 334

Delta R.T. 0.01 min

Lab File: VL034011.D

Acq: 8 Jul 2019 14:48

Instrument :

MSVOA_L

ClientSampleId :

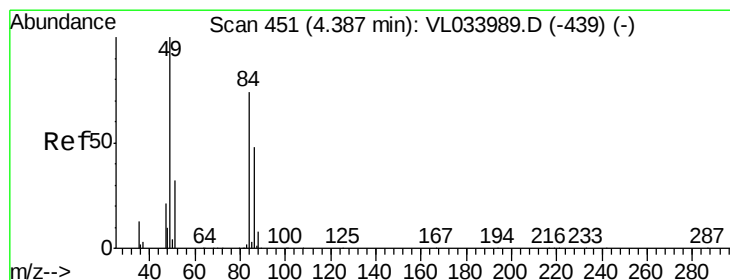
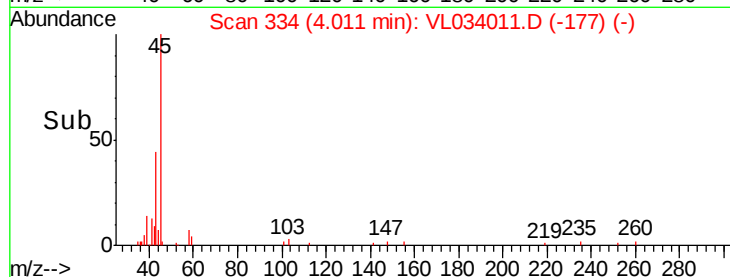
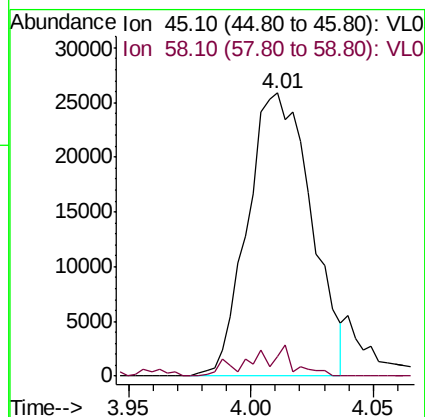
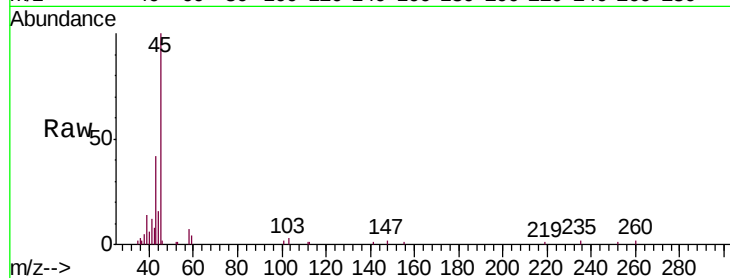
MDL-MDL-AIR-03-QT3-2019

Tgt Ion: 45 Resp: 46796

Ion Ratio Lower Upper

45 100

58 6.9 1.7 2.5#



#20

Methylene Chloride

Concen: 0.448 ppbv

RT: 4.38 min Scan# 449

Delta R.T. -0.01 min

Lab File: VL034011.D

Acq: 8 Jul 2019 14:48

Tgt Ion: 84 Resp: 33545

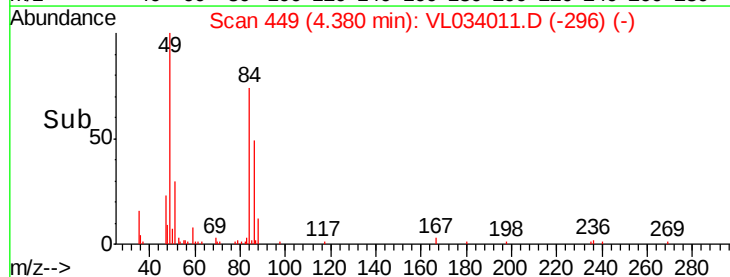
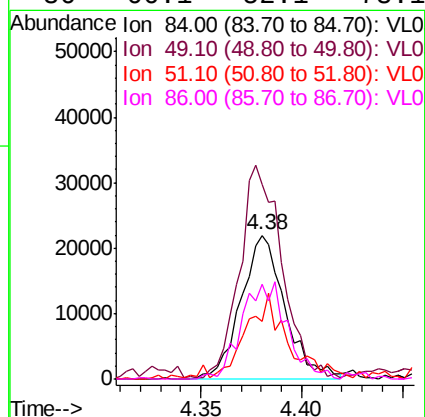
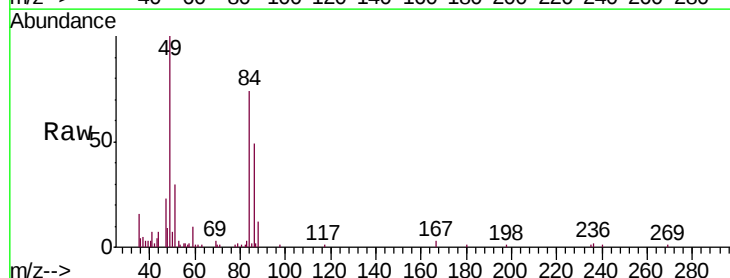
Ion Ratio Lower Upper

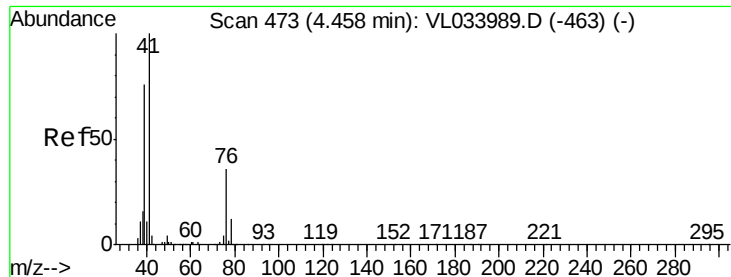
84 100

49 142.8 107.6 161.4

51 36.4 35.0 52.6

86 66.1 52.1 78.1





#21

Allyl Chloride

Concen: 0.375 ppbv

RT: 4.45 min Scan# 472

Delta R.T. -0.00 min

Lab File: VL034011.D

Acq: 8 Jul 2019 14:48

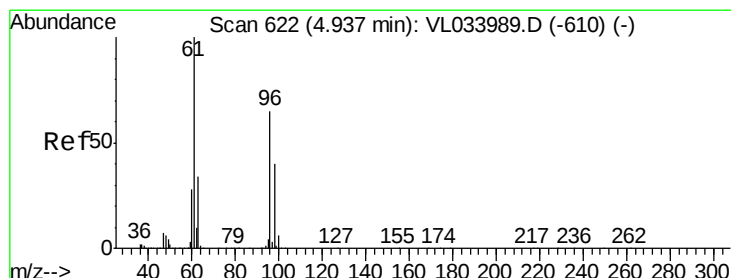
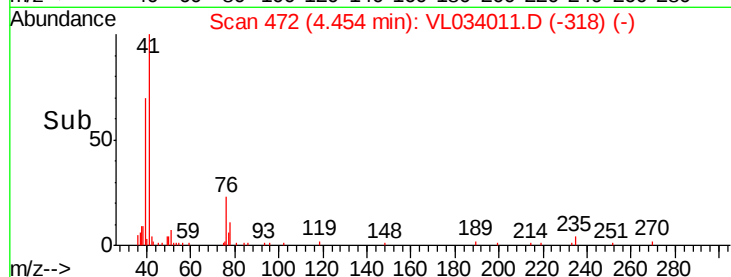
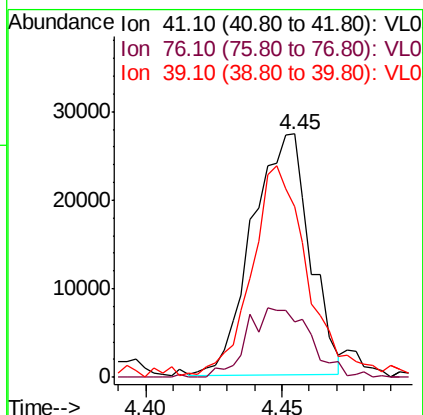
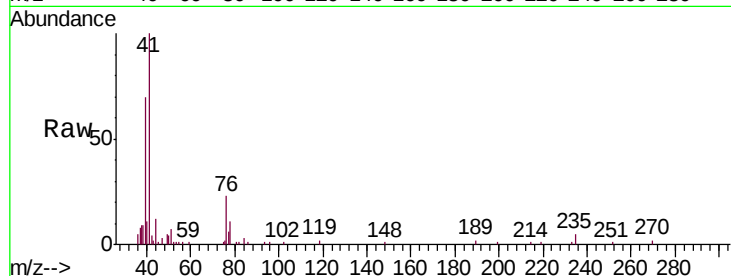
Instrument :

MSVOA_L

ClientSampleId :

MDL-MDL-AIR-03-QT3-2019

Tgt Ion:	41	Resp:	40115
Ion	Ratio	Lower	Upper
41	100		
76	31.7	26.8	40.2
39	90.3	63.1	94.7



#22

trans-1,2-Dichloroethene

Concen: 0.279 ppbv

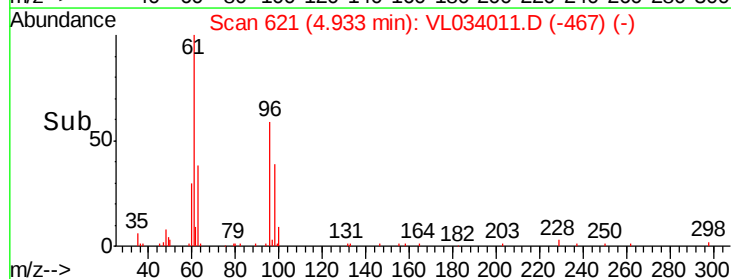
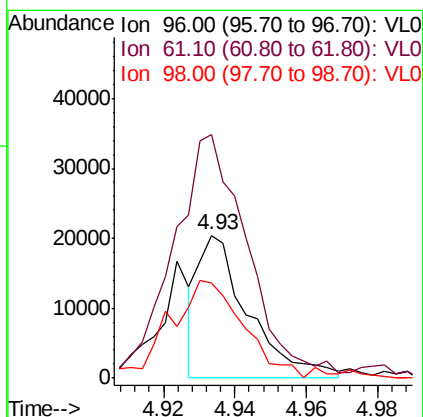
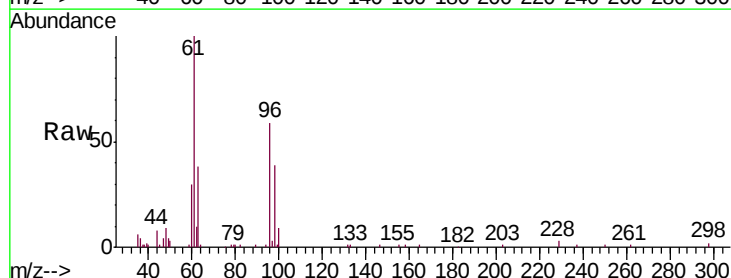
RT: 4.93 min Scan# 621

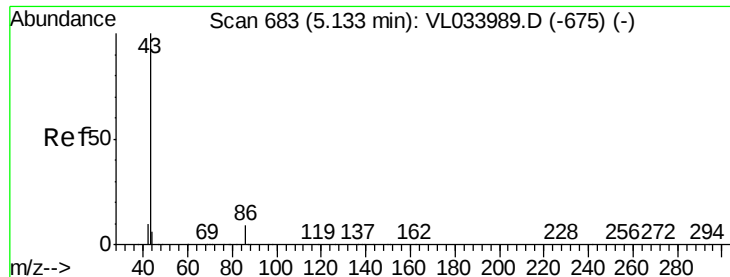
Delta R.T. -0.00 min

Lab File: VL034011.D

Acq: 8 Jul 2019 14:48

Tgt Ion:	96	Resp:	19872
Ion	Ratio	Lower	Upper
96	100		
61	175.1	122.9	184.3
98	67.2	49.6	74.4





#23

Vinyl Acetate

Concen: 0.388 ppbv

RT: 5.12 min Scan# 680

Delta R.T. -0.01 min

Lab File: VL034011.D

Acq: 8 Jul 2019 14:48

Instrument :

MSVOA_L

ClientSampleId :

MDL-MDL-AIR-03-QT3-2019

Tgt Ion: 43 Resp: 66435

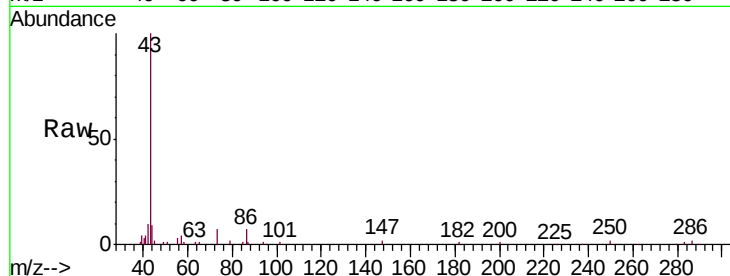
Ion Ratio Lower Upper

43 100

86 6.6 6.6 9.8

42 10.4 8.3 12.5

44 4.4 4.3 6.5

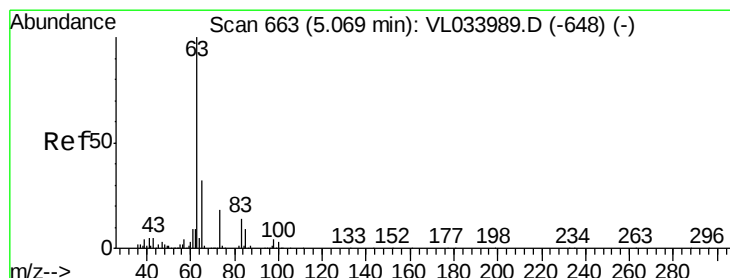
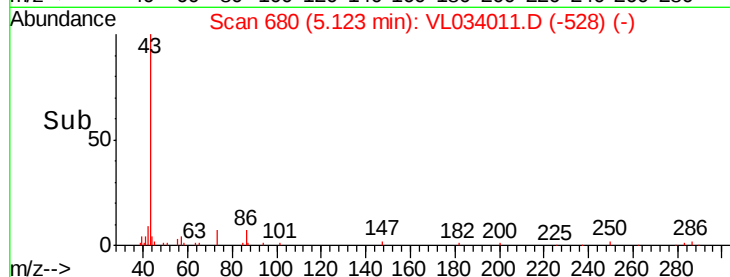
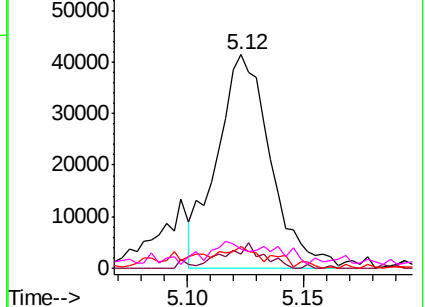


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.453 ppbv

RT: 5.06 min Scan# 660

Delta R.T. -0.01 min

Lab File: VL034011.D

Acq: 8 Jul 2019 14:48

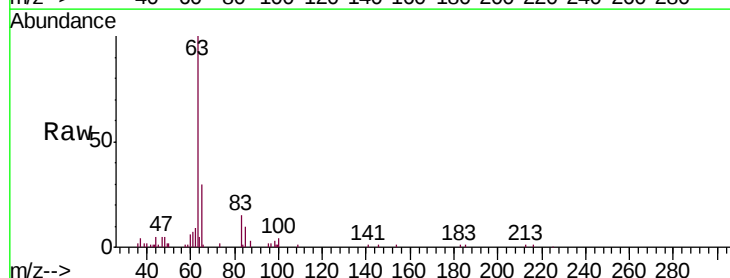
Tgt Ion: 63 Resp: 68750

Ion Ratio Lower Upper

63 100

98 3.3 2.2 6.6

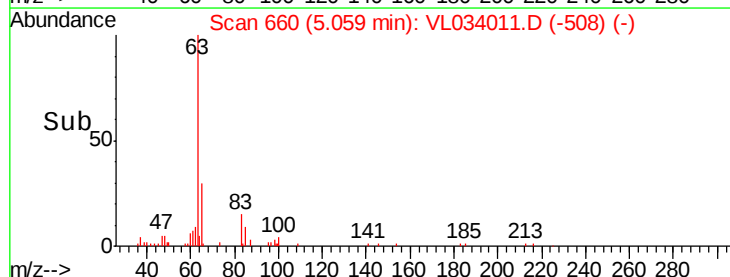
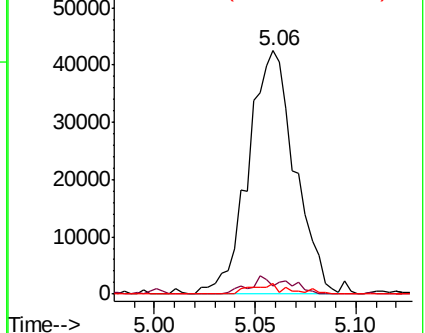
100 4.4 1.4 4.2#

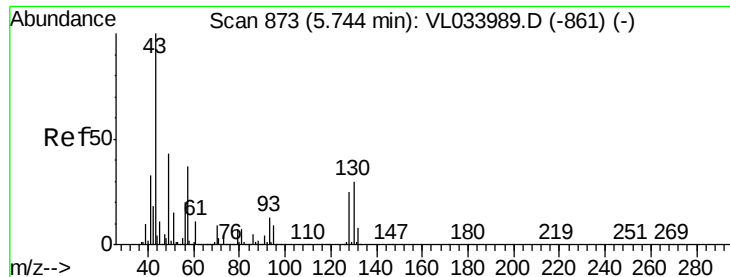


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0

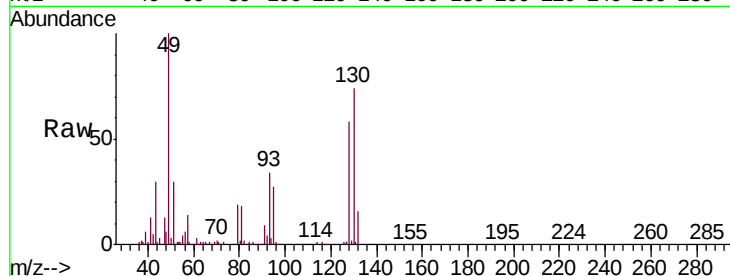




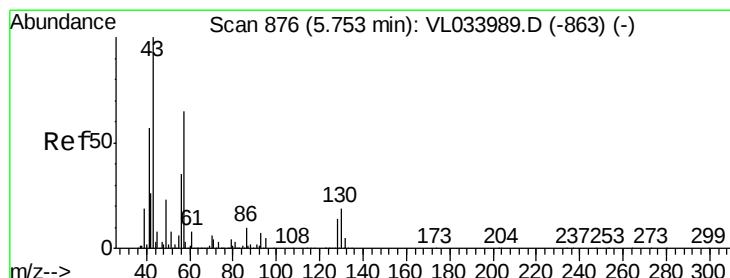
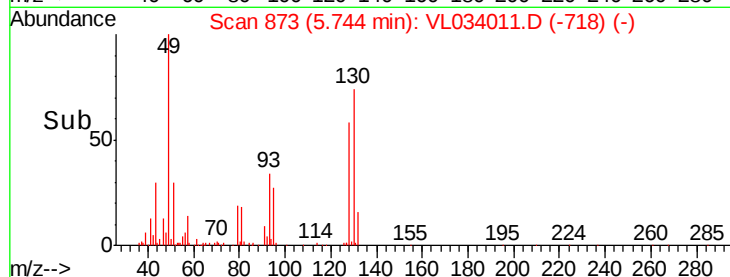
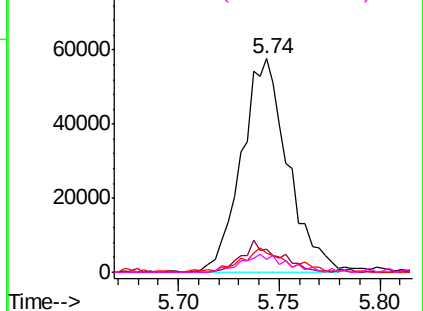
#25
Ethyl Acetate
Concen: 0.391 ppbv
RT: 5.74 min Scan# 873
Delta R.T. -0.00 min
Lab File: VL034011.D
Acq: 8 Jul 2019 14:48

Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT3-2019

Tgt Ion:	43	Resp:	91962
Ion	Ratio	Lower	Upper
43	100		
45	12.1	8.1	12.1#
61	11.3	8.1	12.1
70	8.4	6.3	9.5

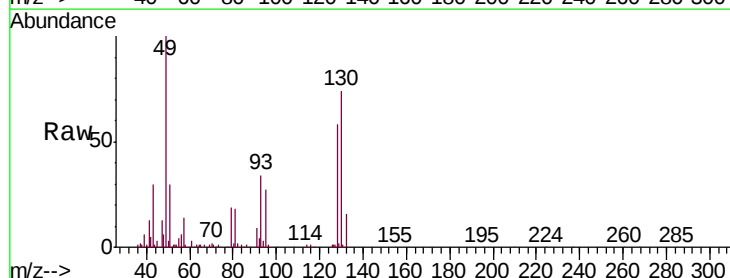


Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0

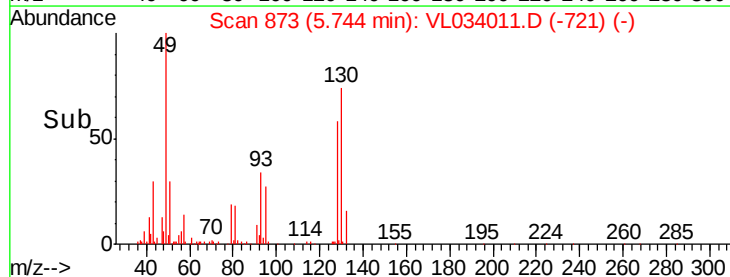
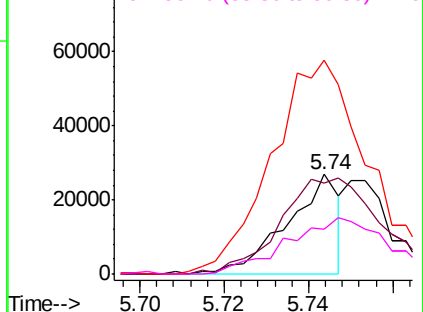


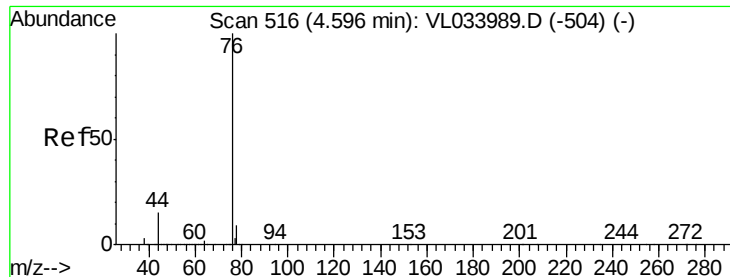
#26
Hexane
Concen: 0.214 ppbv
RT: 5.74 min Scan# 873
Delta R.T. -0.01 min
Lab File: VL034011.D
Acq: 8 Jul 2019 14:48

Tgt Ion:	57	Resp:	23032
Ion	Ratio	Lower	Upper
57	100		
41	0.0	70.6	105.8#
43	408.5	177.6	266.4#
56	0.0	42.6	64.0#



Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0





#27

Carbon Disulfide

Concen: 0.375 ppbv

RT: 4.59 min Scan# 515

Delta R.T. -0.00 min

Lab File: VL034011.D

Acq: 8 Jul 2019 14:48

Instrument :

MSVOA_L

ClientSampleId :

MDL-MDL-AIR-03-QT3-2019

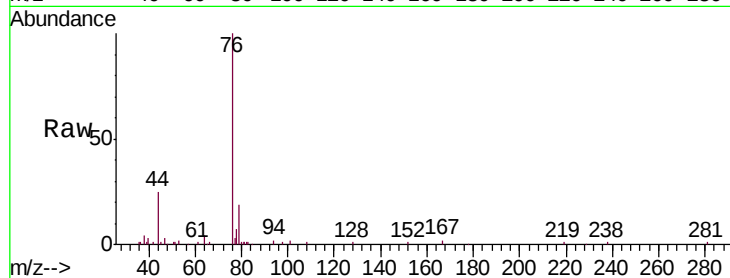
Tgt Ion: 76 Resp: 68583

Ion Ratio Lower Upper

76 100

44 21.3 12.6 18.8#

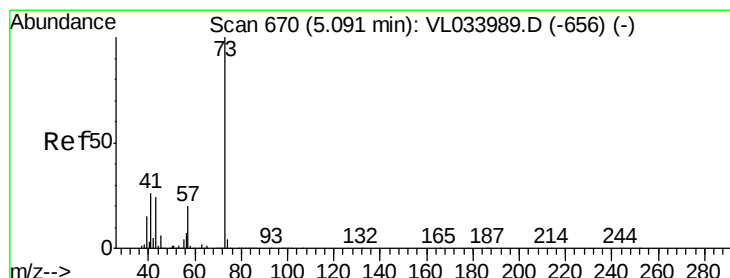
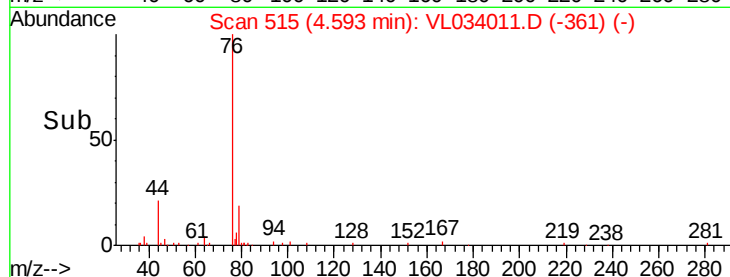
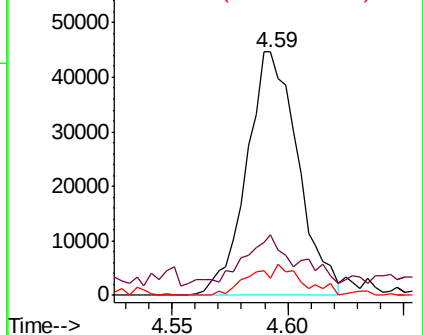
78 13.2 7.2 10.8#



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#28

Methyl tert-Butyl Ether

Concen: 0.386 ppbv

RT: 5.09 min Scan# 670

Delta R.T. -0.00 min

Lab File: VL034011.D

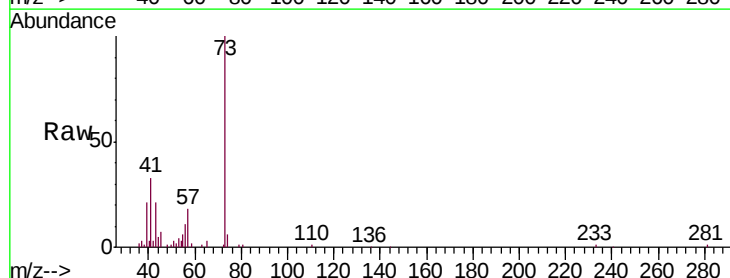
Acq: 8 Jul 2019 14:48

Tgt Ion: 73 Resp: 70357

Ion Ratio Lower Upper

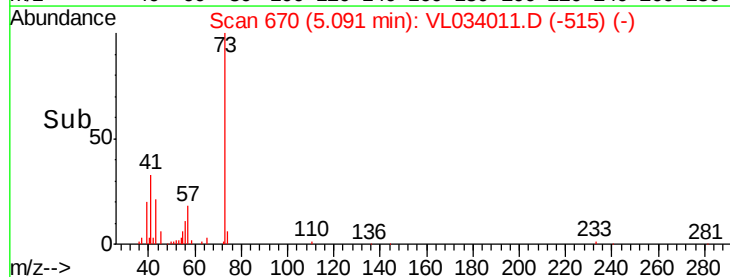
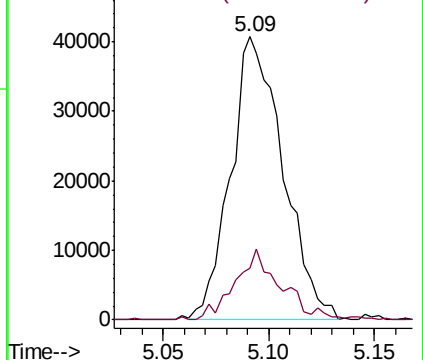
73 100

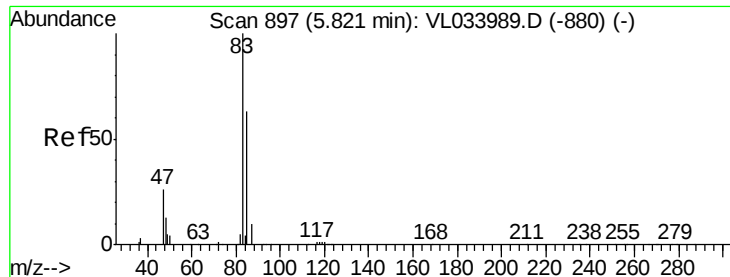
57 22.3 16.9 25.3



Abundance Ion 73.10 (72.80 to 73.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#29

Chloroform

Concen: 0.427 ppbv

RT: 5.81 min Scan# 894

Delta R.T. -0.01 min

Lab File: VL034011.D

Acq: 8 Jul 2019 14:48

Instrument :

MSVOA_L

ClientSampleId :

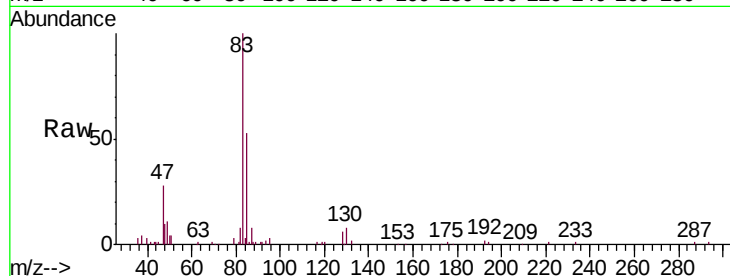
MDL-MDL-AIR-03-QT3-2019

Tgt Ion: 83 Resp: 86310

Ion Ratio Lower Upper

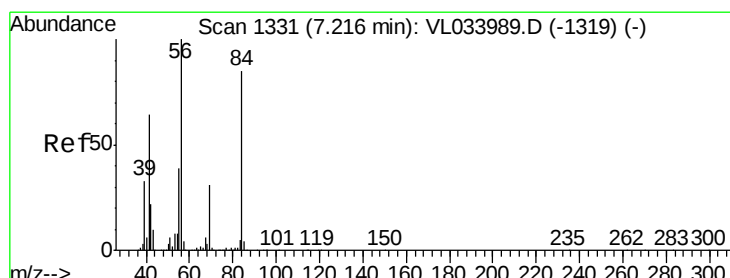
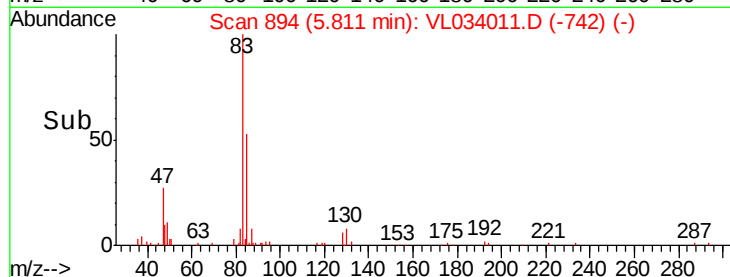
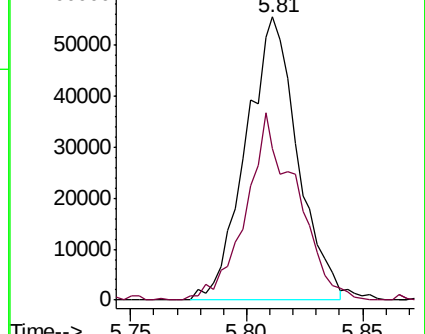
83 100

85 51.9 50.6 75.8



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#30

Cyclohexane

Concen: 0.091 ppbv

RT: 7.21 min Scan# 1328

Delta R.T. -0.01 min

Lab File: VL034011.D

Acq: 8 Jul 2019 14:48

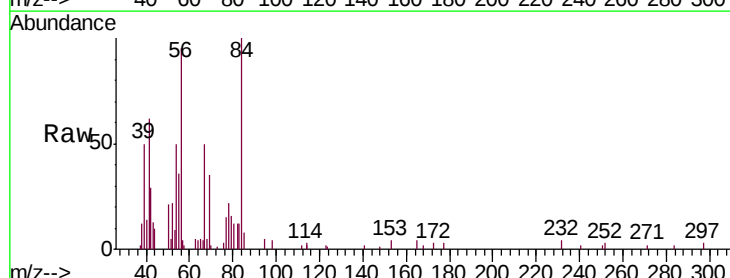
Tgt Ion: 84 Resp: 7582

Ion Ratio Lower Upper

84 100

56 0.0 103.7 155.5#

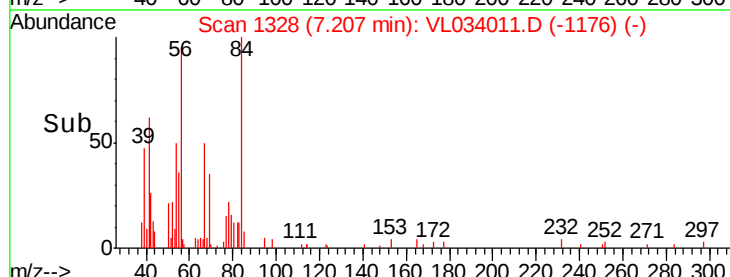
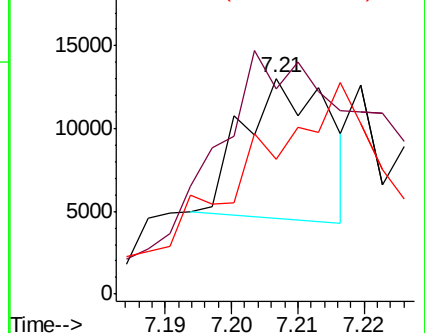
41 0.0 62.6 94.0#

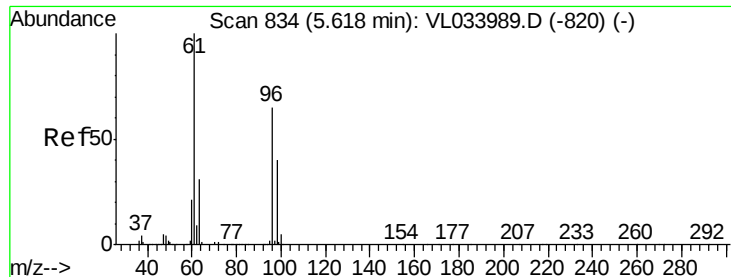


Abundance Ion 84.20 (83.90 to 84.90): VL0

Ion 56.10 (55.80 to 56.80): VL0

Ion 41.10 (40.80 to 41.80): VL0





#31

cis-1,2-Dichloroethene

Concen: 0.176 ppbv

RT: 5.60 min Scan# 829

Delta R.T. -0.02 min

Lab File: VL034011.D

Acq: 8 Jul 2019 14:48

Instrument :

MSVOA_L

ClientSampleId :

MDL-MDL-AIR-03-QT3-2019

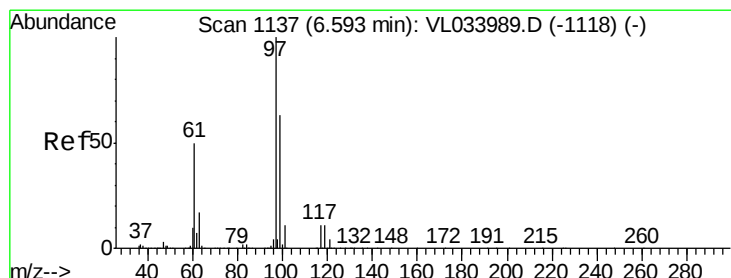
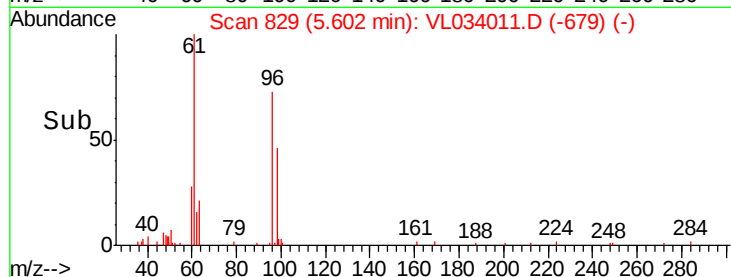
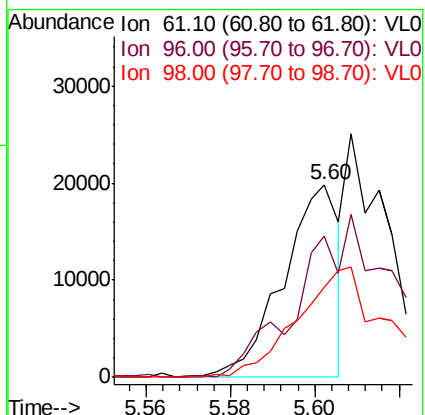
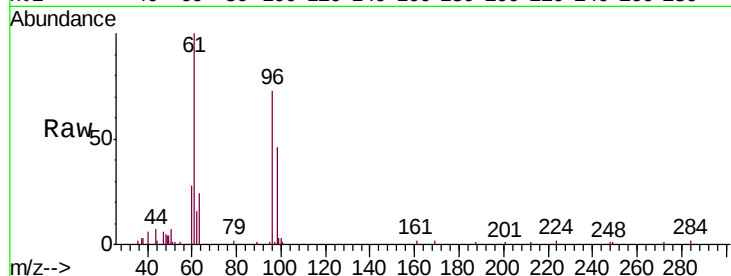
Tgt Ion: 61 Resp: 18273

Ion Ratio Lower Upper

61 100

96 62.8 51.8 77.6

98 40.5 32.1 48.1



#32

1,1,1-Trichloroethane

Concen: 0.383 ppbv

RT: 6.59 min Scan# 1135

Delta R.T. -0.01 min

Lab File: VL034011.D

Acq: 8 Jul 2019 14:48

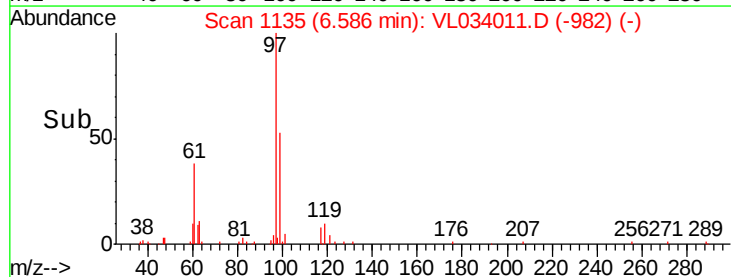
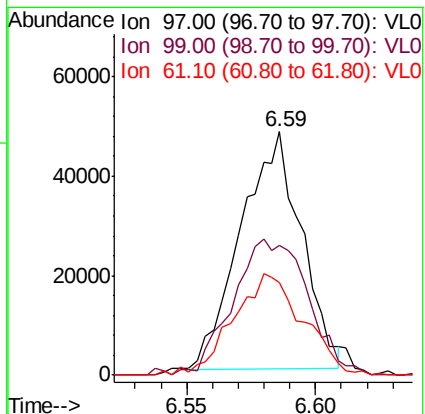
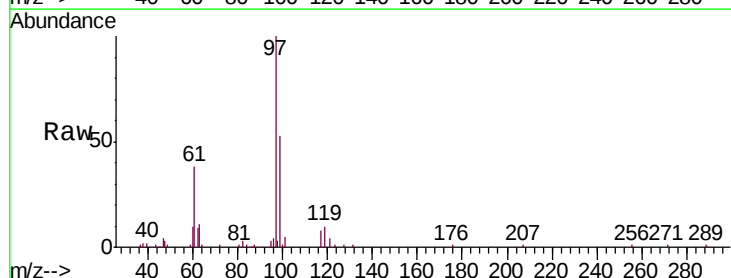
Tgt Ion: 97 Resp: 78427

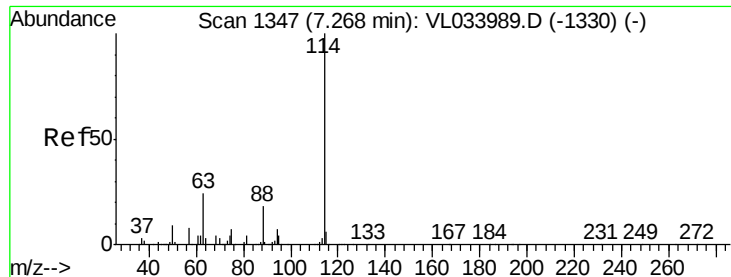
Ion Ratio Lower Upper

97 100

99 71.2 51.9 77.9

61 49.3 39.8 59.8

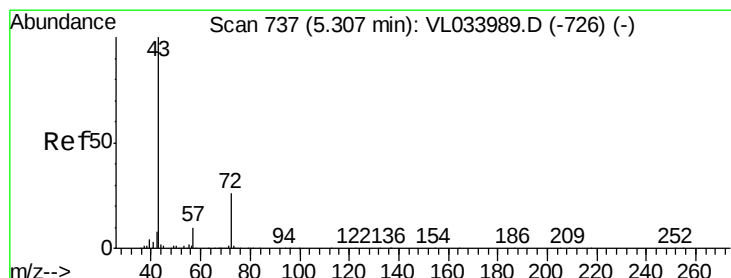
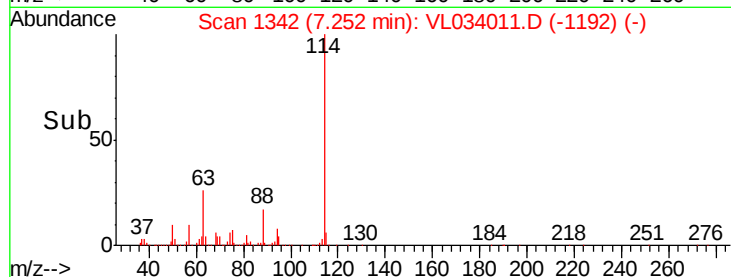
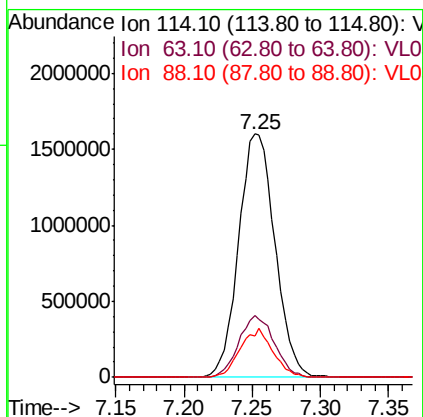
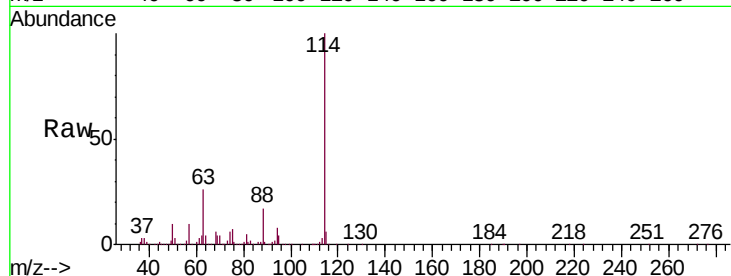




#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.25 min Scan# 1342
 Delta R.T. -0.02 min
 Lab File: VL034011.D
 Acq: 8 Jul 2019 14:48

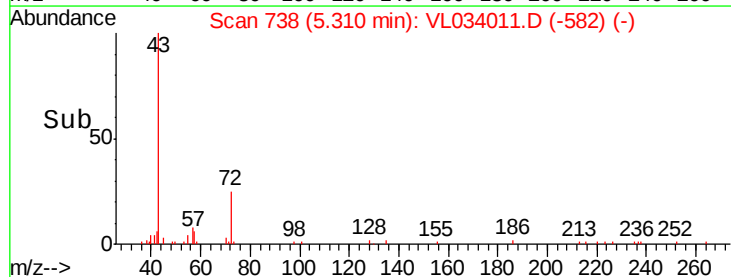
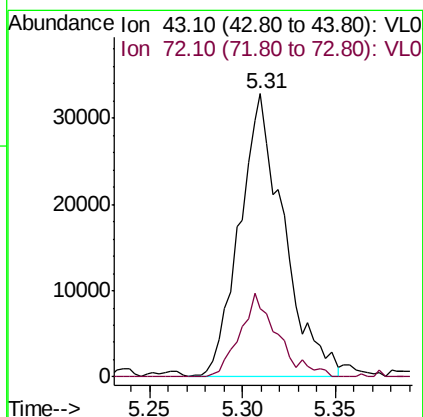
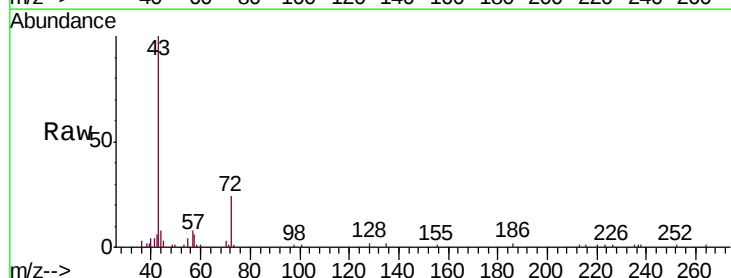
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT3-2019

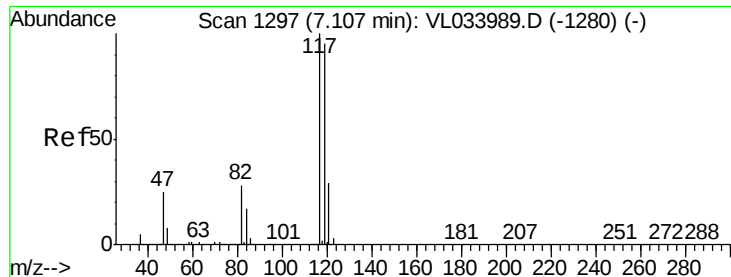
Tgt Ion:114 Resp: 2958653
 Ion Ratio Lower Upper
 114 100
 63 25.1 20.2 30.2
 88 18.1 14.1 21.1



#34
 2-Butanone
 Concen: 0.350 ppbv
 RT: 5.31 min Scan# 738
 Delta R.T. 0.00 min
 Lab File: VL034011.D
 Acq: 8 Jul 2019 14:48

Tgt Ion: 43 Resp: 54809
 Ion Ratio Lower Upper
 43 100
 72 25.0 19.9 29.9





#35

Carbon Tetrachloride

Concen: 0.395 ppbv

RT: 7.10 min Scan# 1294

Delta R.T. -0.01 min

Lab File: VL034011.D

Acq: 8 Jul 2019 14:48

Instrument :

MSVOA_L

ClientSampleId :

MDL-MDL-AIR-03-QT3-2019

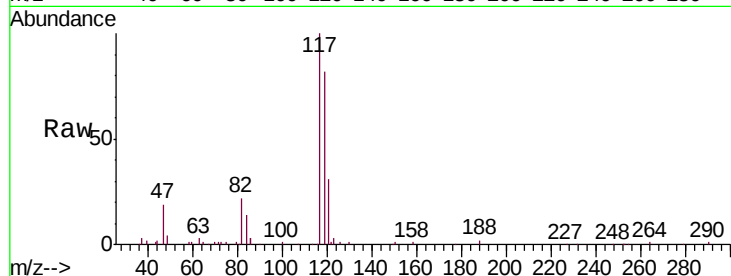
Tgt Ion: 117 Resp: 92571

Ion Ratio Lower Upper

117 100

119 80.3 75.8 113.6

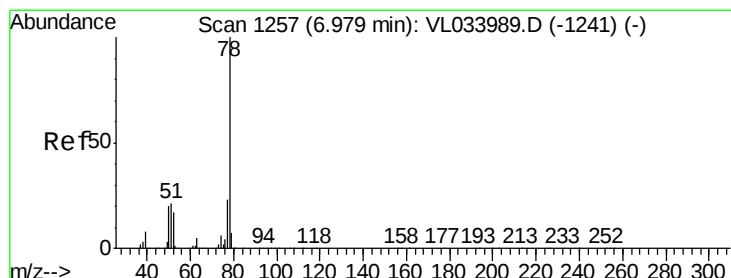
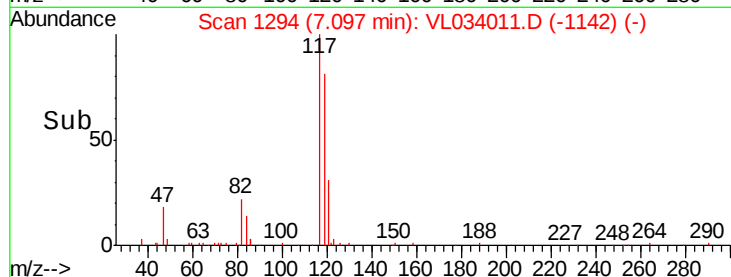
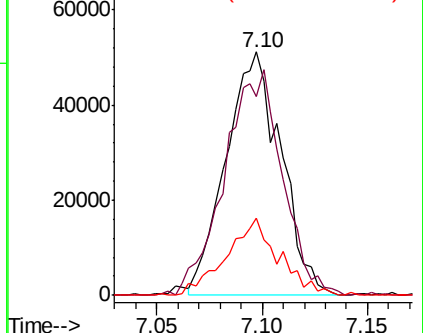
121 31.5 23.4 35.2



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: 0.319 ppbv

RT: 6.97 min Scan# 1254

Delta R.T. -0.01 min

Lab File: VL034011.D

Acq: 8 Jul 2019 14:48

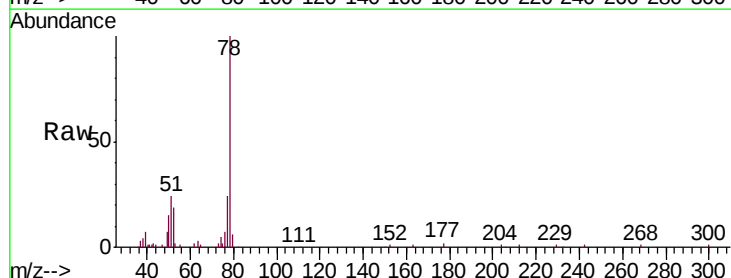
Tgt Ion: 78 Resp: 73942

Ion Ratio Lower Upper

78 100

77 23.6 18.7 28.1

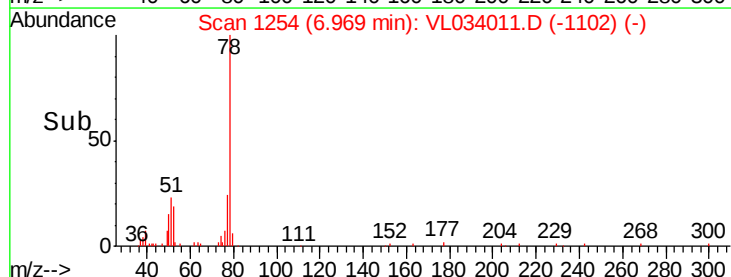
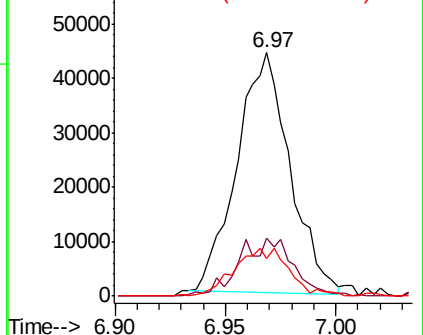
50 15.7 16.2 24.2#

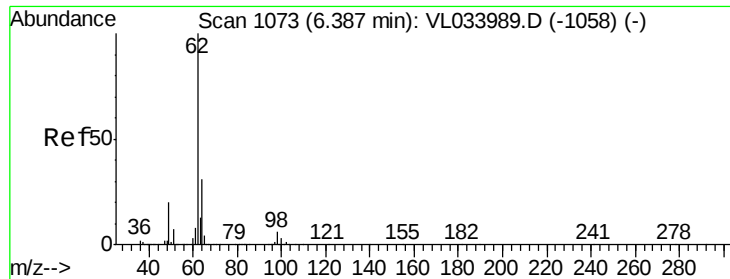


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0

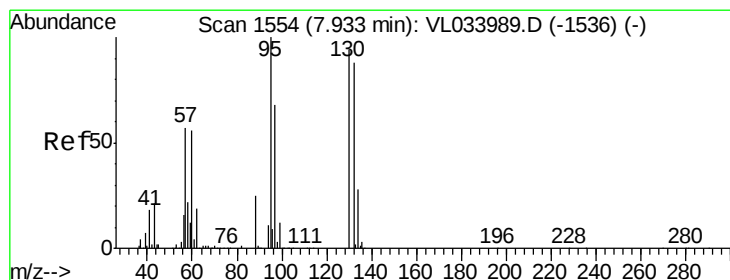
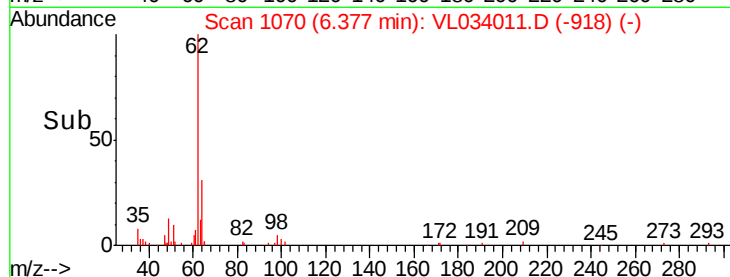
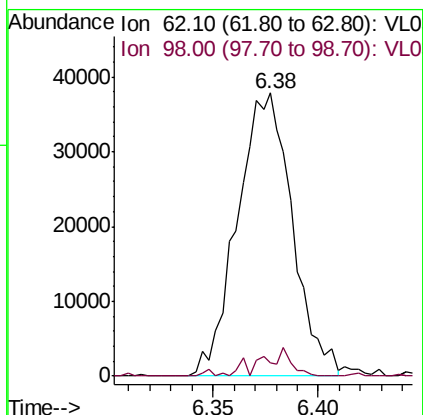
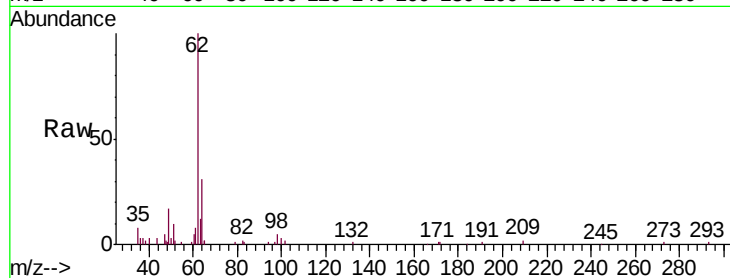




#37
 1,2-Dichloroethane
 Concen: 0.402 ppbv
 RT: 6.38 min Scan# 1070
 Delta R.T. -0.01 min
 Lab File: VL034011.D
 Acq: 8 Jul 2019 14:48

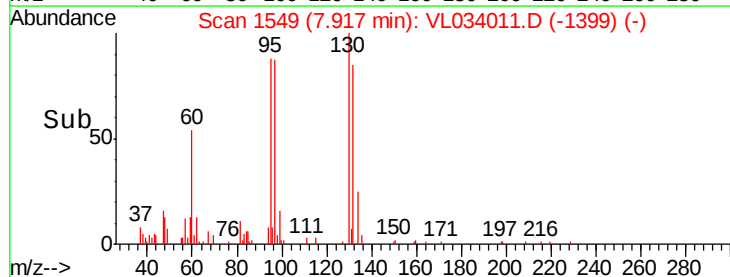
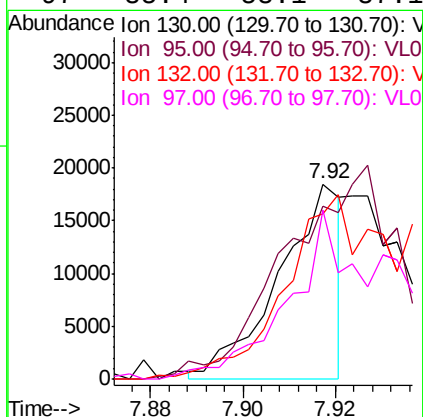
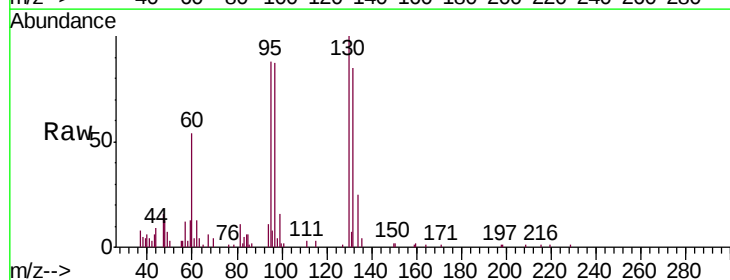
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT3-2019

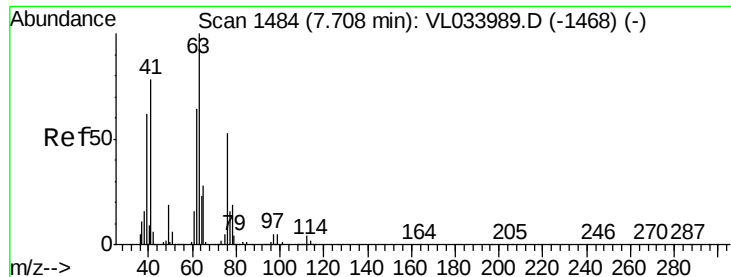
Tgt Ion: 62 Resp: 68526
 Ion Ratio Lower Upper
 62 100
 98 5.8 4.4 6.6



#38
 Trichloroethene
 Concen: 0.167 ppbv
 RT: 7.92 min Scan# 1549
 Delta R.T. -0.02 min
 Lab File: VL034011.D
 Acq: 8 Jul 2019 14:48

Tgt Ion: 130 Resp: 17214
 Ion Ratio Lower Upper
 130 100
 95 91.1 85.5 128.3
 132 84.3 75.1 112.7
 97 85.4 58.1 87.1

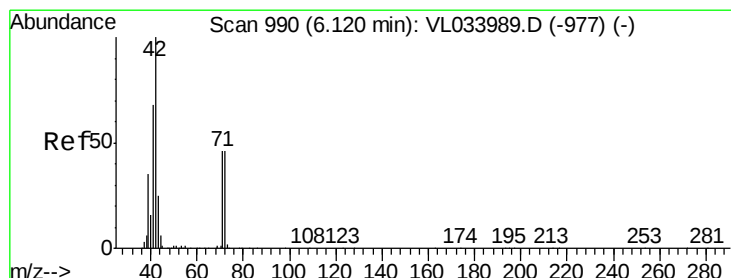
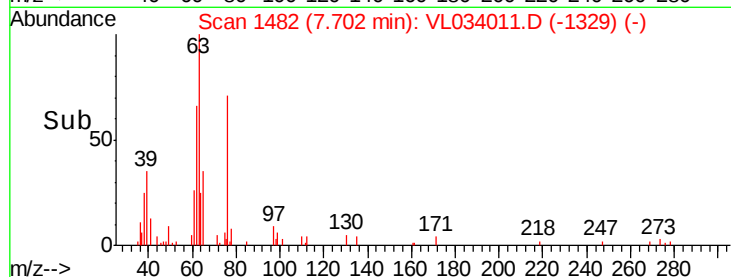
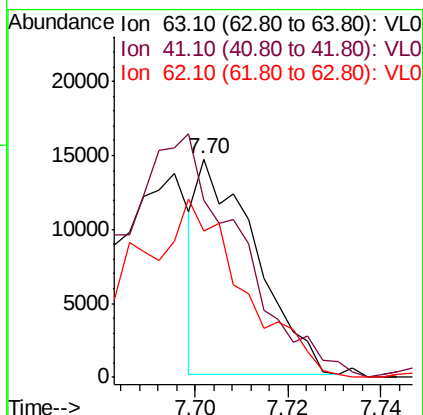
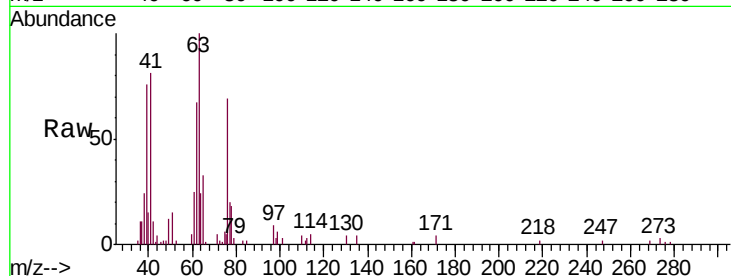




#39
 1,2-Dichloropropane
 Concen: 0.147 ppbv
 RT: 7.70 min Scan# 1482
 Delta R.T. -0.01 min
 Lab File: VL034011.D
 Acq: 8 Jul 2019 14:48

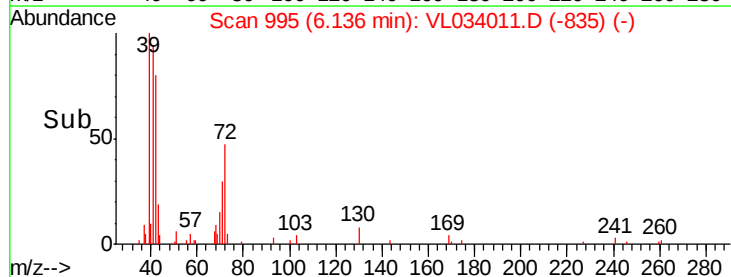
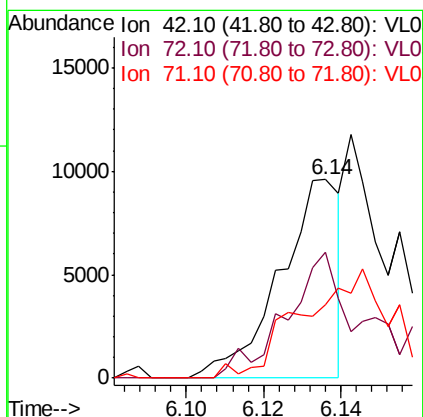
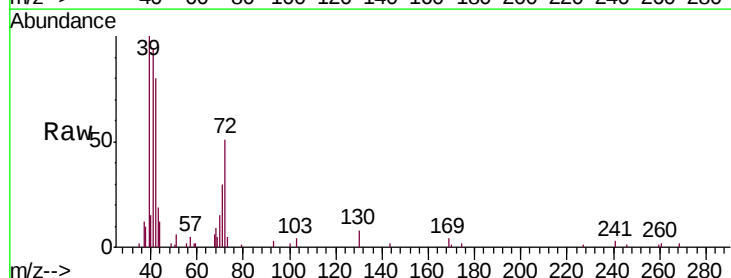
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT3-2019

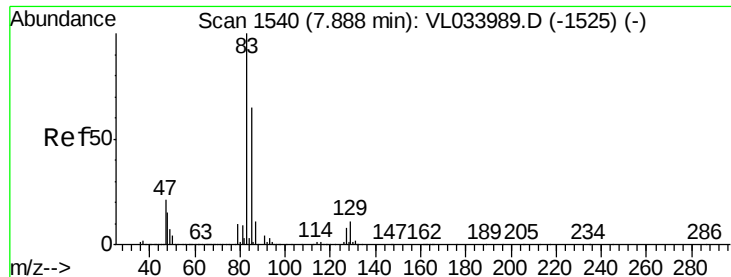
Tgt Ion: 63 Resp: 12618
 Ion Ratio Lower Upper
 63 100
 41 74.9 62.3 93.5
 62 66.4 51.4 77.2



#41
 Tetrahydrofuran
 Concen: 0.135 ppbv
 RT: 6.14 min Scan# 995
 Delta R.T. 0.02 min
 Lab File: VL034011.D
 Acq: 8 Jul 2019 14:48

Tgt Ion: 42 Resp: 10382
 Ion Ratio Lower Upper
 42 100
 72 87.4 37.3 55.9#
 71 0.0 36.2 54.2#





#42

Bromodichloromethane

Concen: 0.202 ppbv

RT: 7.88 min Scan# 1536

Delta R.T. -0.01 min

Lab File: VL034011.D

Acq: 8 Jul 2019 14:48

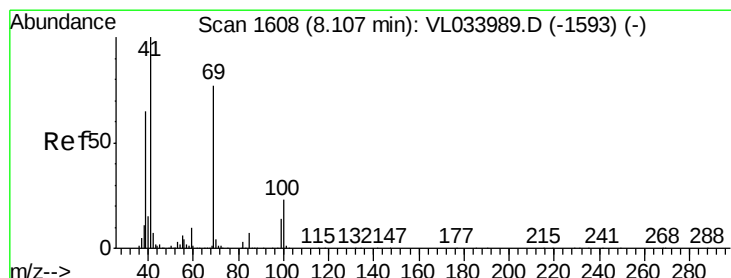
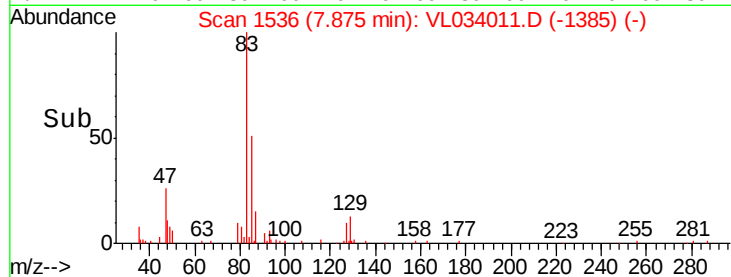
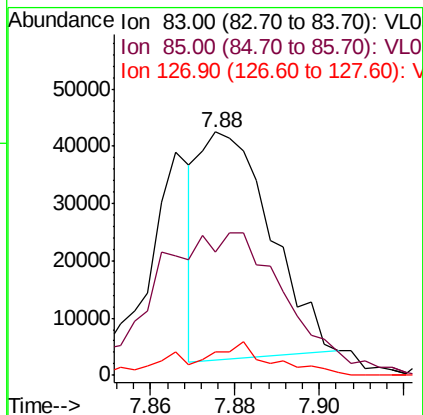
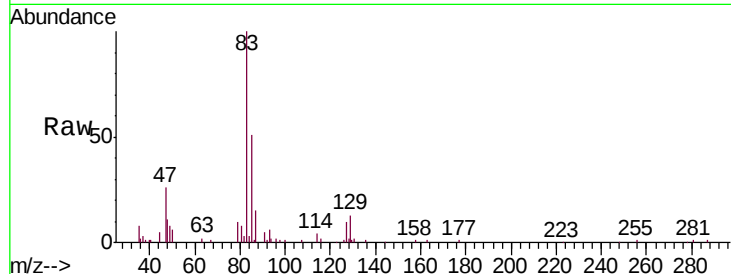
Instrument :

MSVOA_L

ClientSampleId :

MDL-MDL-AIR-03-QT3-2019

Tgt Ion:	83	Resp:	46300
Ion	Ratio	Lower	Upper
83	100		
85	45.6	51.8	77.8#
127	9.6	6.5	9.7



#43

Methyl Methacrylate

Concen: 0.075 ppbv

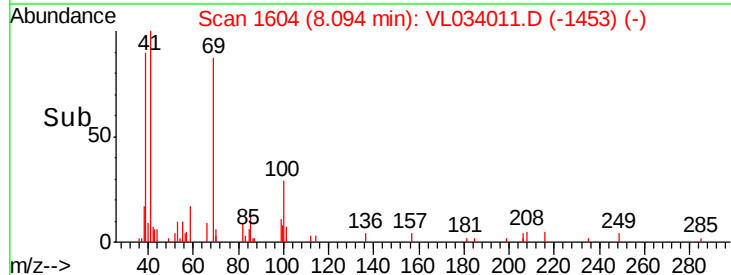
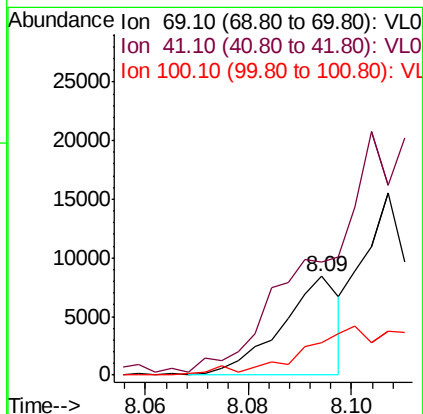
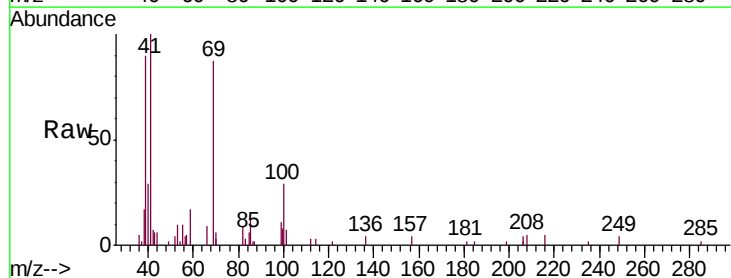
RT: 8.09 min Scan# 1604

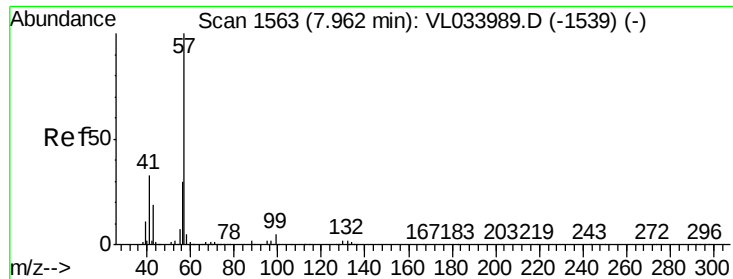
Delta R.T. -0.01 min

Lab File: VL034011.D

Acq: 8 Jul 2019 14:48

Tgt Ion:	69	Resp:	6597
Ion	Ratio	Lower	Upper
69	100		
41	0.0	109.1	163.7#
100	0.0	25.3	37.9#

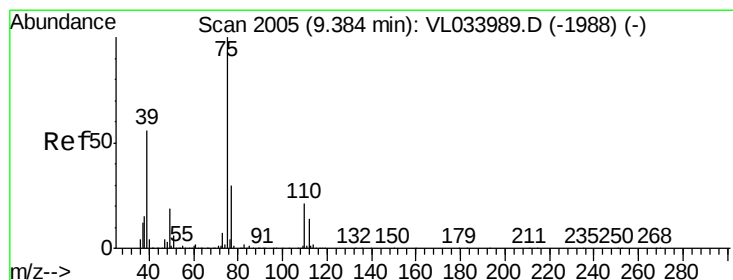
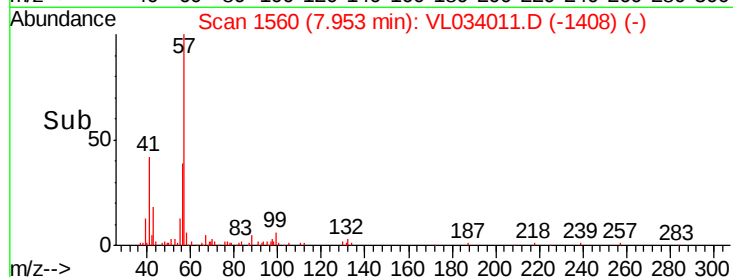
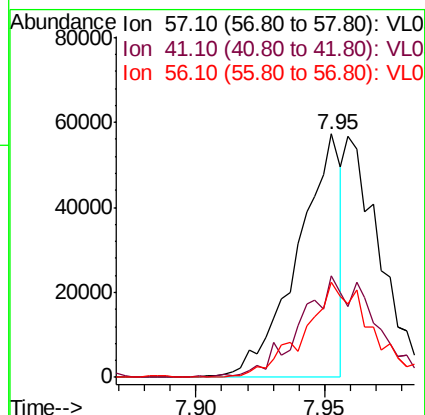
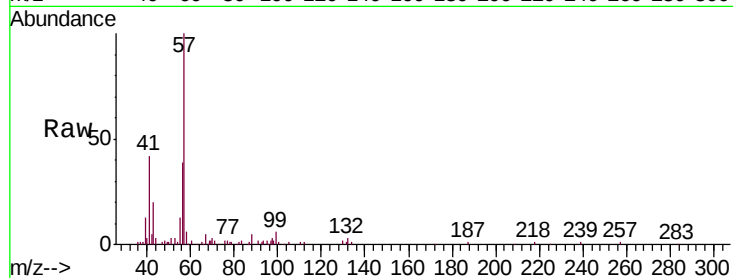




#44
 2,2,4-Trimethylpentane
 Concen: 0.167 ppbv
 RT: 7.95 min Scan# 1560
 Delta R.T. -0.01 min
 Lab File: VL034011.D
 Acq: 8 Jul 2019 14:48

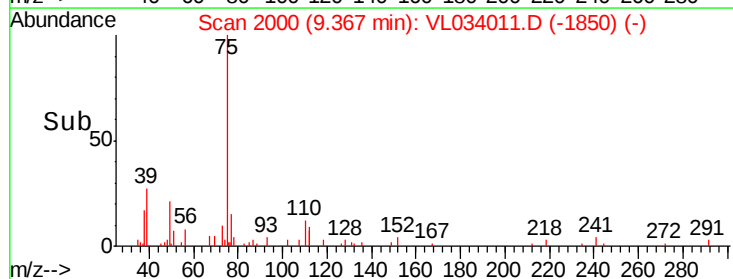
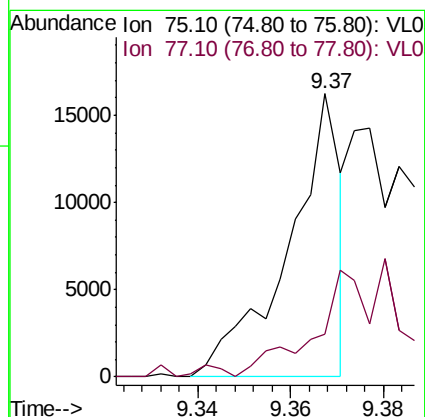
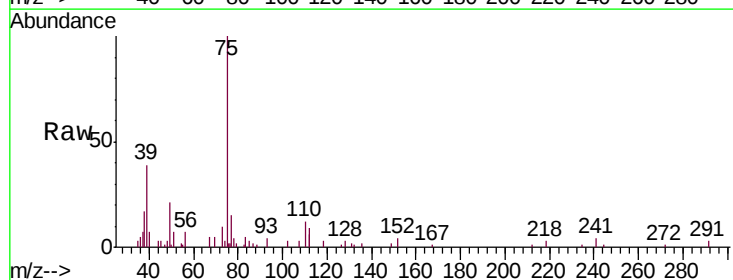
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT3-2019

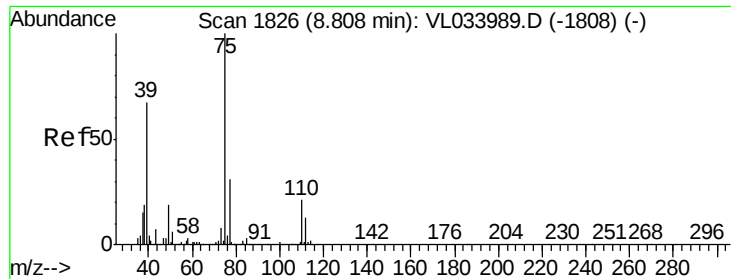
Tgt Ion: 57 Resp: 66817
 Ion Ratio Lower Upper
 57 100
 41 71.4 26.1 39.1#
 56 60.1 24.4 36.6#



#45
 t-1,3-Dichloropropene
 Concen: 0.111 ppbv
 RT: 9.37 min Scan# 2000
 Delta R.T. -0.02 min
 Lab File: VL034011.D
 Acq: 8 Jul 2019 14:48

Tgt Ion: 75 Resp: 12750
 Ion Ratio Lower Upper
 75 100
 77 15.0 24.3 36.5#

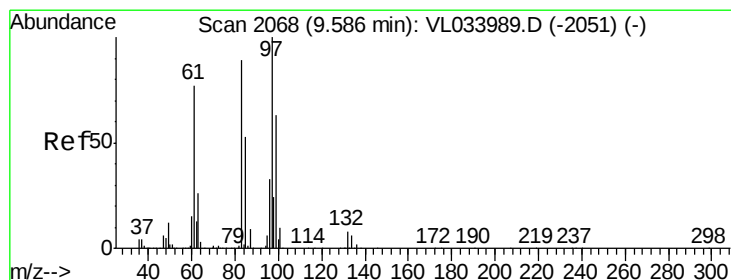
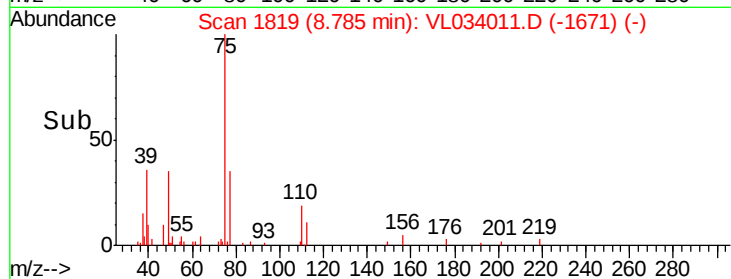
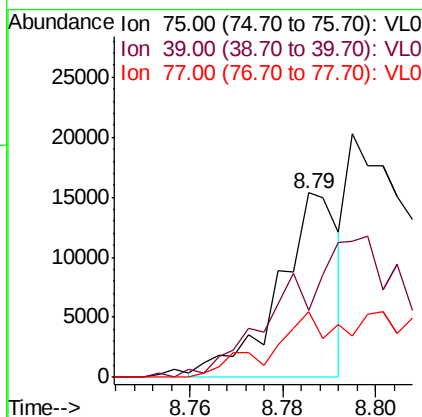
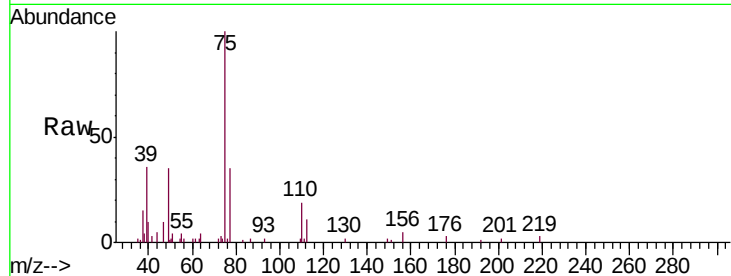




#46
 cis-1,3-Dichloropropene
 Concen: 0.103 ppbv
 RT: 8.79 min Scan# 1819
 Delta R.T. -0.02 min
 Lab File: VL034011.D
 Acq: 8 Jul 2019 14:48

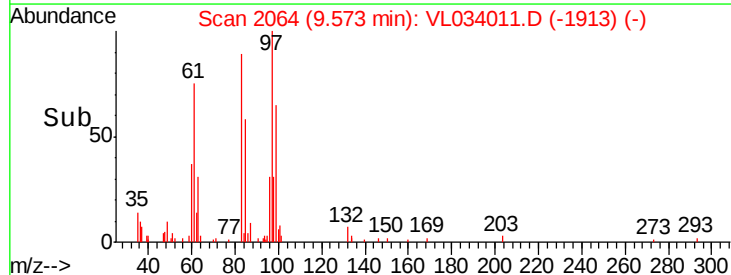
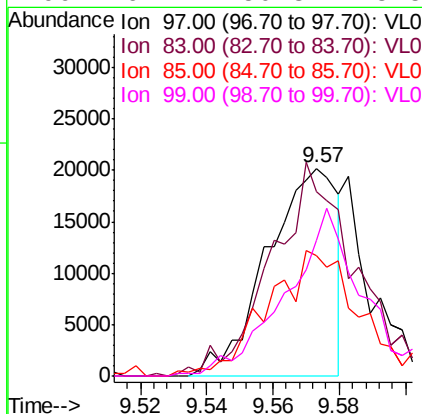
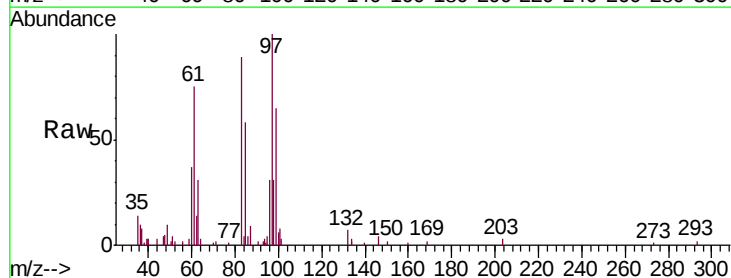
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT3-2019

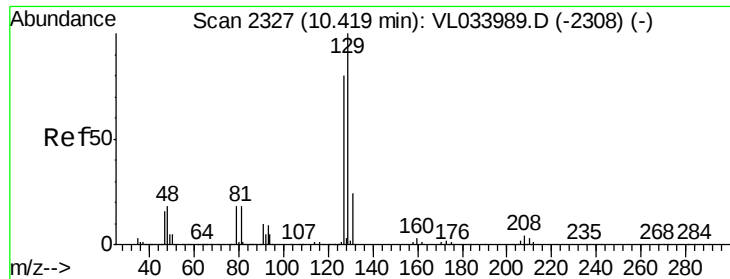
Tgt Ion: 75 Resp: 13712
 Ion Ratio Lower Upper
 75 100
 39 32.7 53.8 80.6#
 77 36.1 24.5 36.7



#47
 1,1,2-Trichloroethane
 Concen: 0.274 ppbv
 RT: 9.57 min Scan# 2064
 Delta R.T. -0.01 min
 Lab File: VL034011.D
 Acq: 8 Jul 2019 14:48

Tgt Ion: 97 Resp: 29654
 Ion Ratio Lower Upper
 97 100
 83 85.0 71.1 106.7
 85 55.9 42.6 64.0
 99 64.1 50.3 75.5





#48

Dibromochloromethane

Concen: 0.296 ppbv

RT: 10.41 min Scan# 2325

Delta R.T. -0.01 min

Lab File: VL034011.D

Acq: 8 Jul 2019 14:48

Instrument :

MSVOA_L

ClientSampleId :

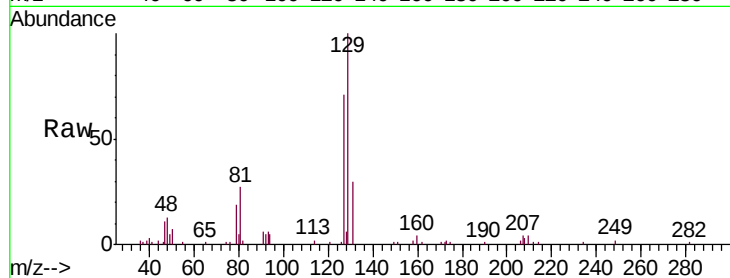
MDL-MDL-AIR-03-QT3-2019

Tgt Ion:129 Resp: 61066

Ion Ratio Lower Upper

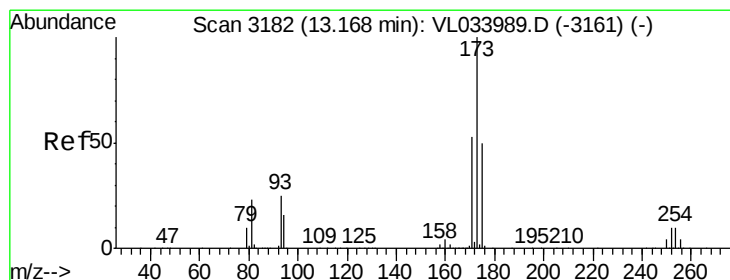
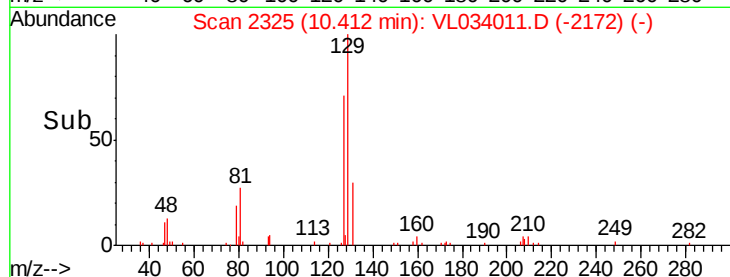
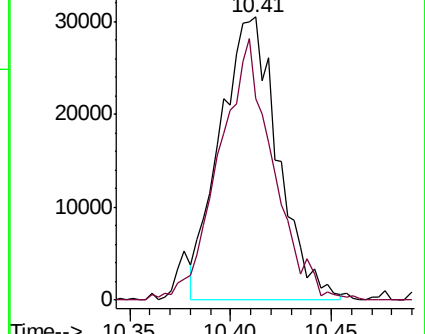
129 100

127 86.2 39.1 117.3



Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#49

Bromoform

Concen: 0.348 ppbv

RT: 13.16 min Scan# 3179

Delta R.T. -0.01 min

Lab File: VL034011.D

Acq: 8 Jul 2019 14:48

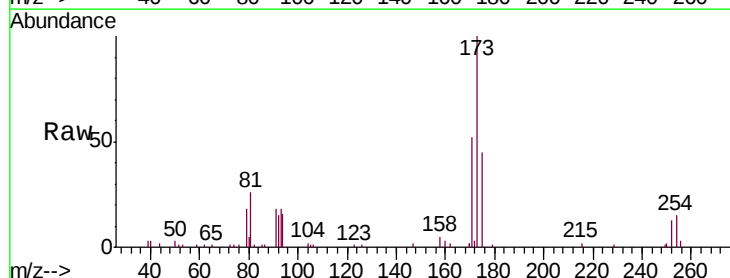
Tgt Ion:173 Resp: 61358

Ion Ratio Lower Upper

173 100

175 51.0 39.3 58.9

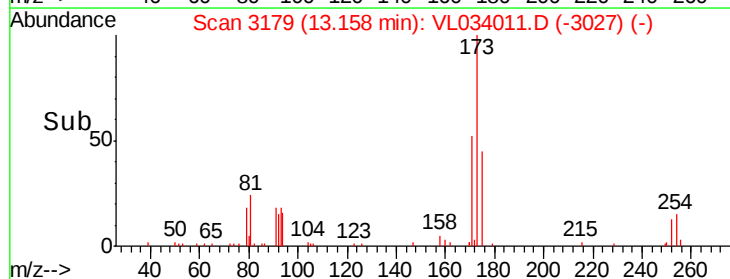
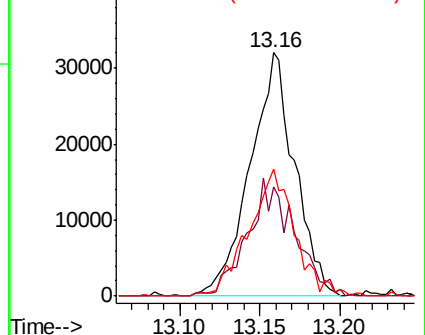
171 54.3 41.4 62.0

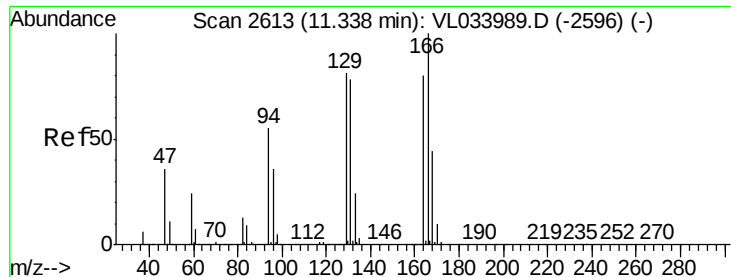


Abundance Ion 172.90 (172.60 to 173.60): V

Ion 174.90 (174.60 to 175.60): V

Ion 170.90 (170.60 to 171.60): V





#52

Tetrachloroethene

Concen: 0.101 ppbv

RT: 11.32 min Scan# 2607

Delta R.T. -0.02 min

Lab File: VL034011.D

Acq: 8 Jul 2019 14:48

Instrument :

MSVOA_L

ClientSampleId :

MDL-MDL-AIR-03-QT3-2019

Tgt Ion:164 Resp: 10031

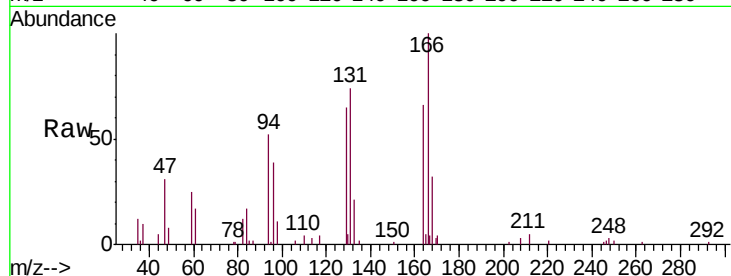
Ion Ratio Lower Upper

164 100

166 145.1 100.2 150.2

129 97.8 81.0 121.6

131 106.2 78.3 117.5

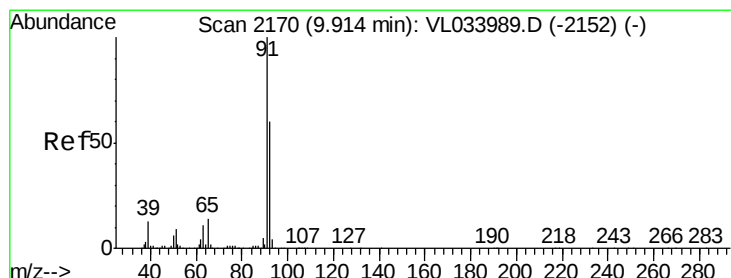
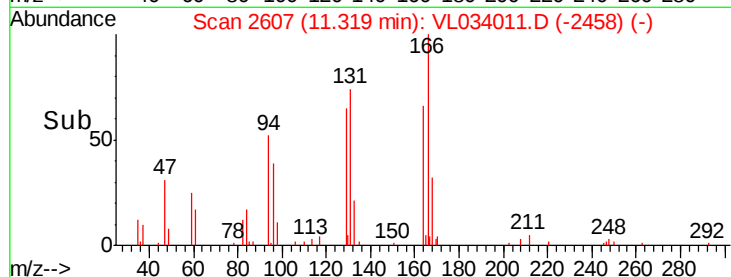
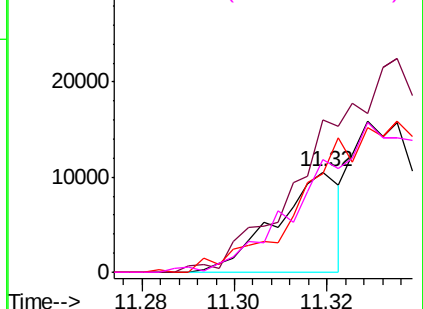


Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.255 ppbv

RT: 9.91 min Scan# 2168

Delta R.T. -0.01 min

Lab File: VL034011.D

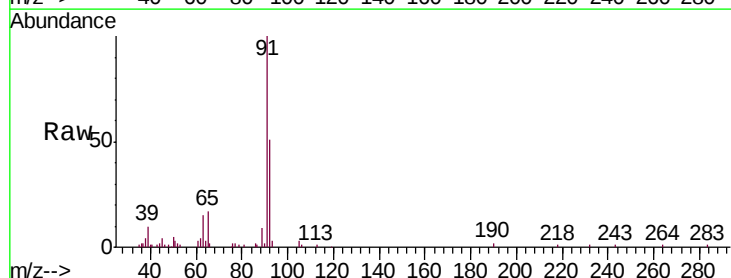
Acq: 8 Jul 2019 14:48

Tgt Ion: 91 Resp: 67674

Ion Ratio Lower Upper

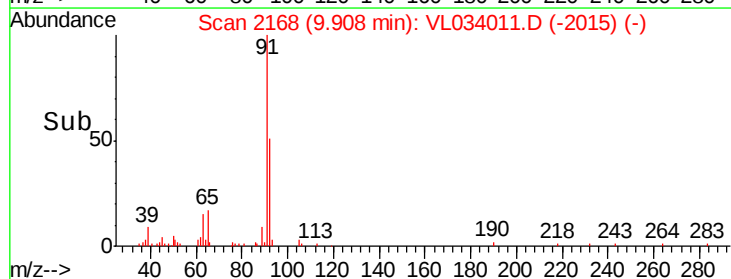
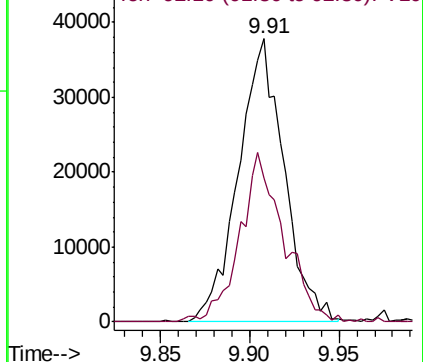
91 100

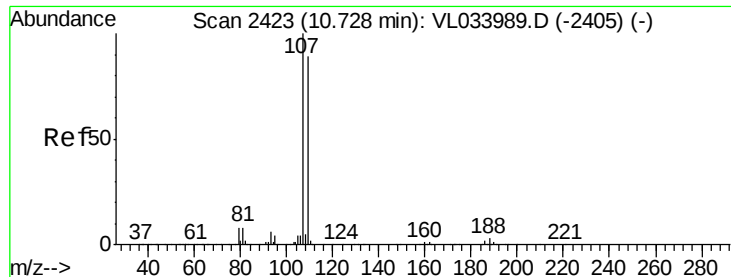
92 57.4 47.7 71.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





#54

1,2-Dibromoethane

Concen: 0.343 ppbv

RT: 10.72 min Scan# 2420

Delta R.T. -0.01 min

Lab File: VL034011.D

Acq: 8 Jul 2019 14:48

Instrument :

MSVOA_L

ClientSampleId :

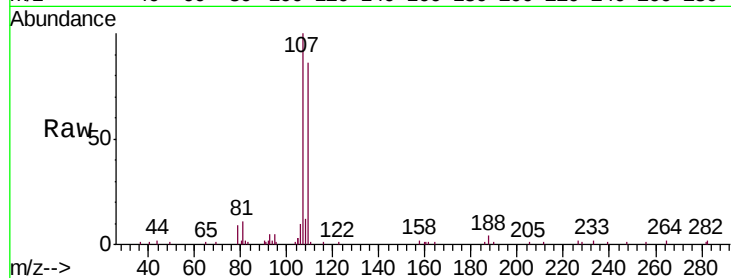
MDL-MDL-AIR-03-QT3-2019

Tgt Ion:107 Resp: 54866

Ion Ratio Lower Upper

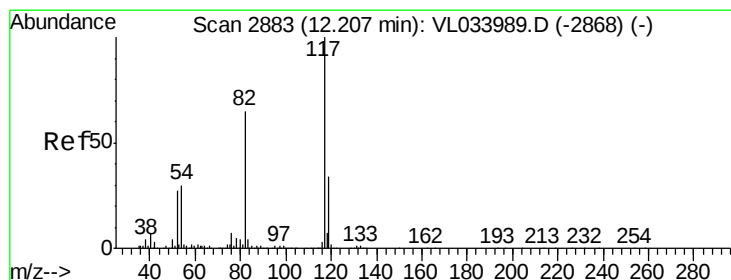
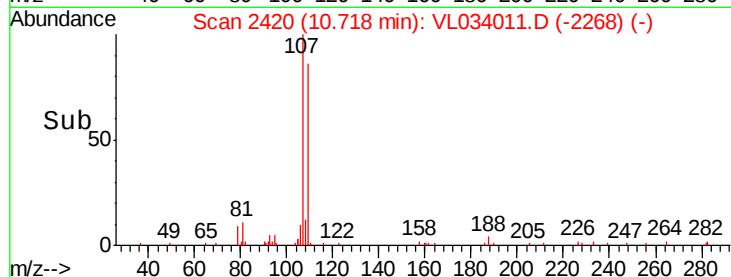
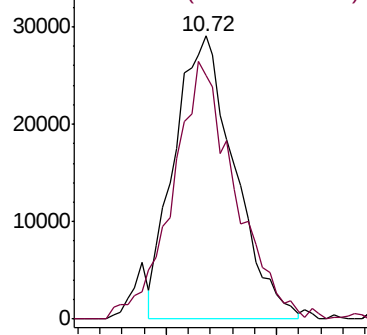
107 100

109 84.7 71.5 107.3



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.20 min Scan# 2880

Delta R.T. -0.01 min

Lab File: VL034011.D

Acq: 8 Jul 2019 14:48

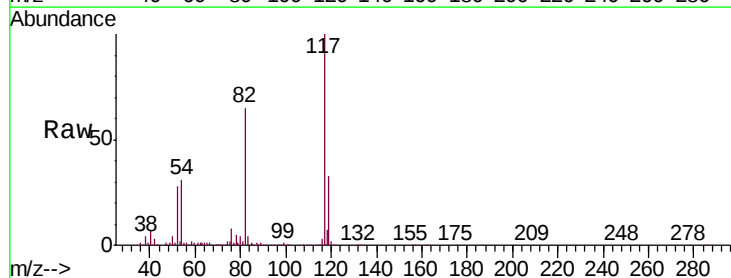
Tgt Ion:117 Resp: 2744912

Ion Ratio Lower Upper

117 100

82 65.5 50.8 76.2

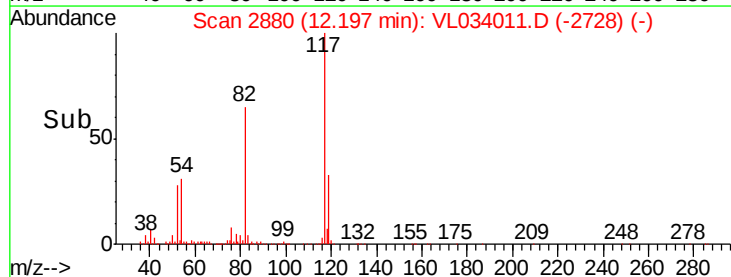
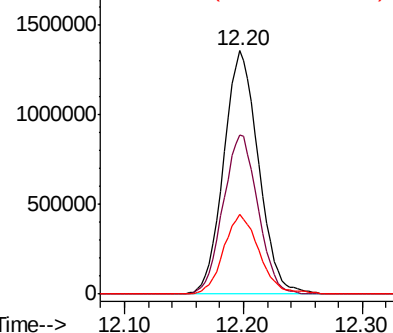
119 33.6 24.0 36.0

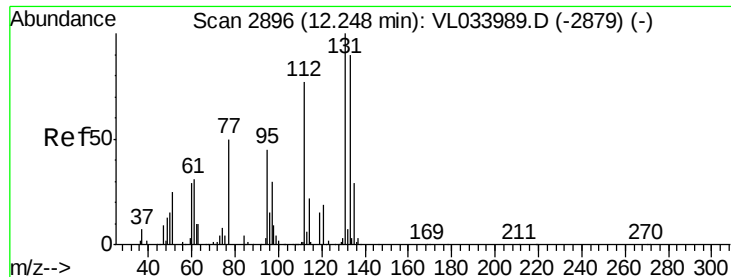


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#56

1,1,1,2-Tetrachloroethane

Concen: 0.106 ppbv

RT: 12.25 min Scan# 2896

Delta R.T. -0.00 min

Lab File: VL034011.D

Acq: 8 Jul 2019 14:48

Instrument :

MSVOA_L

ClientSampleId :

MDL-MDL-AIR-03-QT3-2019

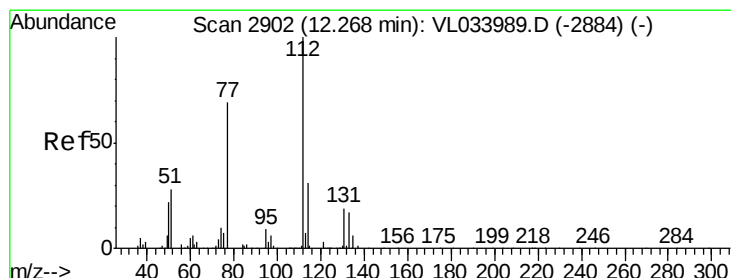
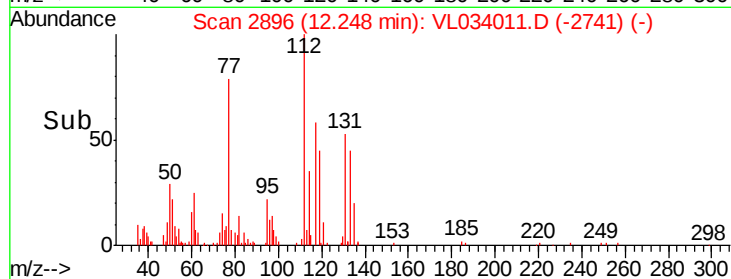
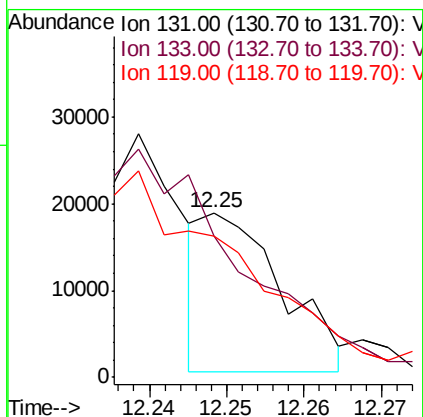
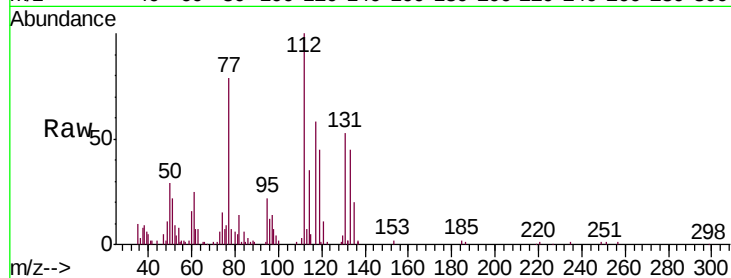
Tgt Ion:131 Resp: 12954

Ion Ratio Lower Upper

131 100

133 0.0 76.2 114.2#

119 0.0 43.1 64.7#



#57

Chlorobenzene

Concen: 0.215 ppbv

RT: 12.25 min Scan# 2897

Delta R.T. -0.02 min

Lab File: VL034011.D

Acq: 8 Jul 2019 14:48

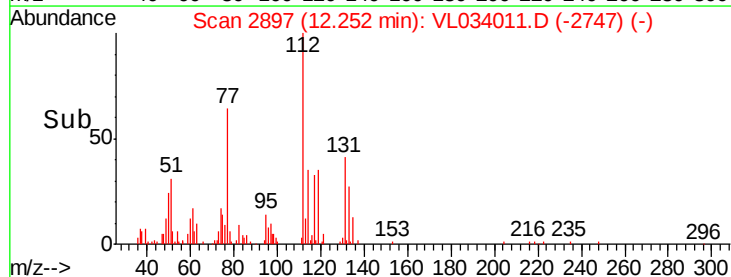
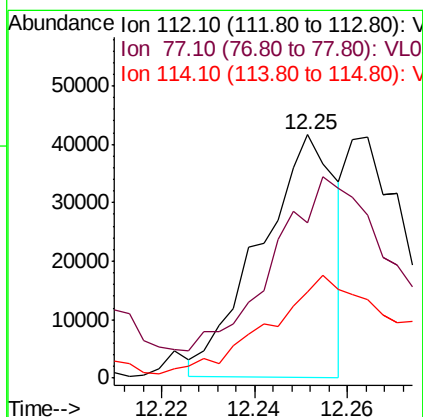
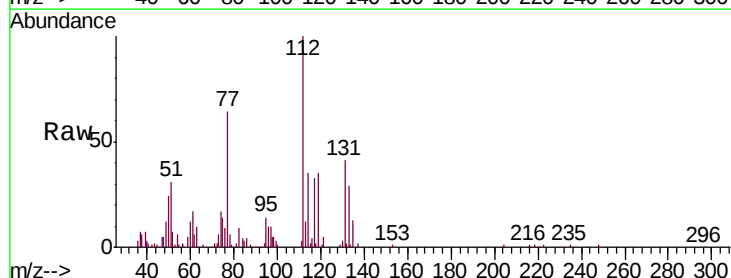
Tgt Ion:112 Resp: 46946

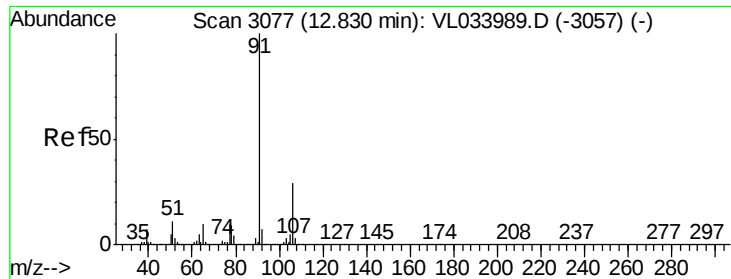
Ion Ratio Lower Upper

112 100

77 56.5 55.9 83.9

114 33.0 27.6 33.8





#58

Ethyl Benzene

Concen: 0.030 ppbv

RT: 12.84 min Scan# 3081

Delta R.T. 0.01 min

Lab File: VL034011.D

Acq: 8 Jul 2019 14:48

Instrument :

MSVOA_L

ClientSampleId :

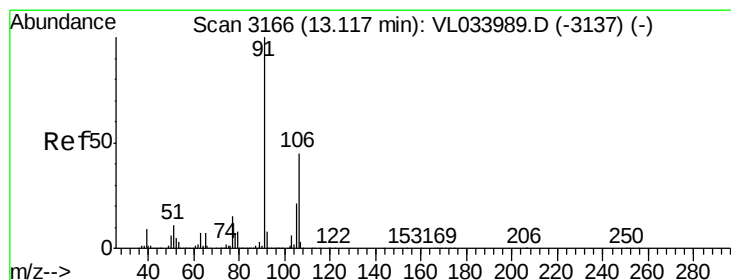
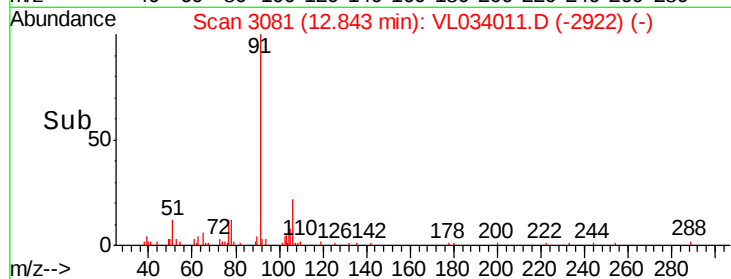
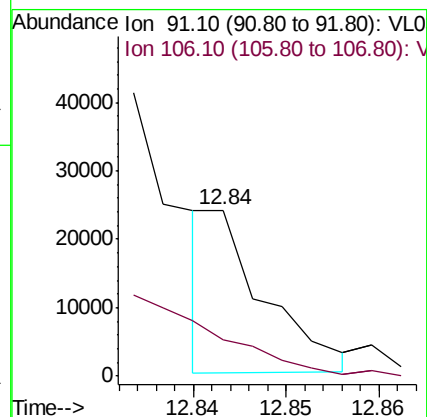
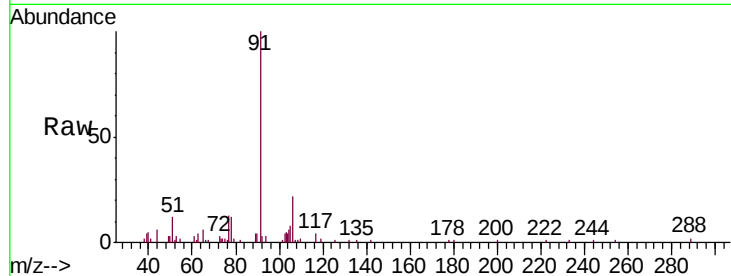
MDL-MDL-AIR-03-QT3-2019

Tgt Ion: 91 Resp: 9913

Ion Ratio Lower Upper

91 100

106 23.7 23.3 34.9



#59

m/p-Xylene

Concen: 0.085 ppbv

RT: 13.10 min Scan# 3162

Delta R.T. -0.01 min

Lab File: VL034011.D

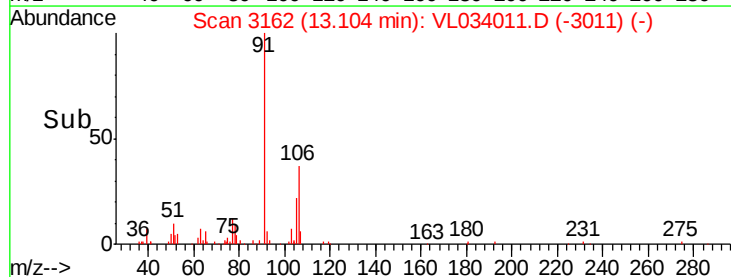
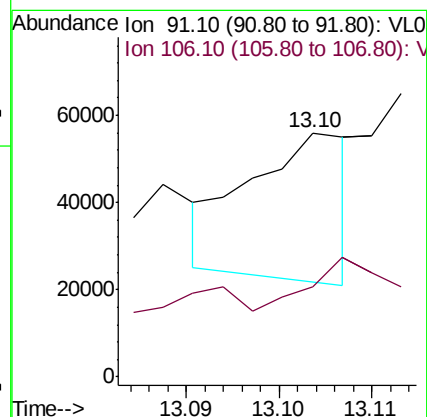
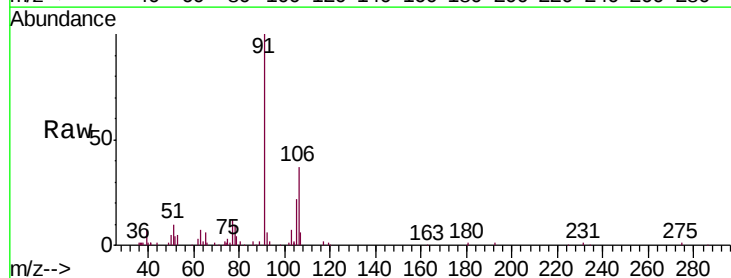
Acq: 8 Jul 2019 14:48

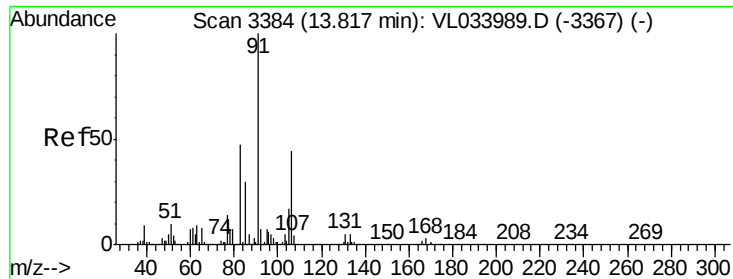
Tgt Ion: 91 Resp: 25305

Ion Ratio Lower Upper

91 100

106 313.8 35.7 53.5#

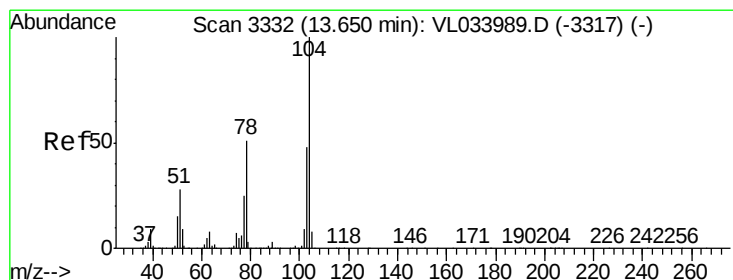
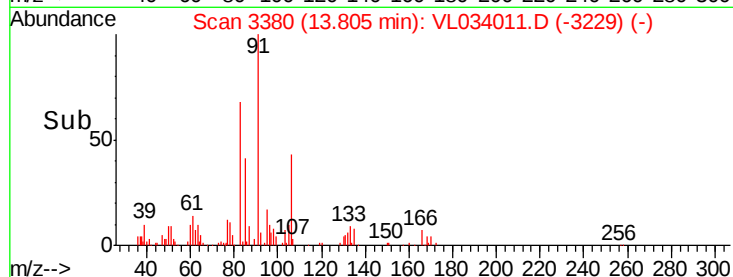
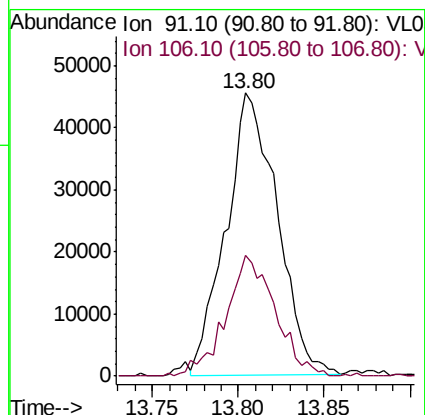
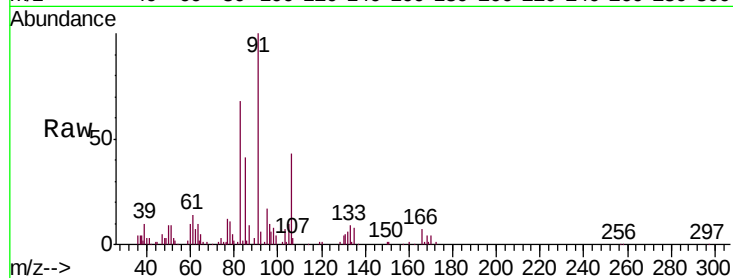




#60
o-Xylene
Concen: 0.316 ppbv
RT: 13.80 min Scan# 3380
Delta R.T. -0.01 min
Lab File: VL034011.D
Acq: 8 Jul 2019 14:48

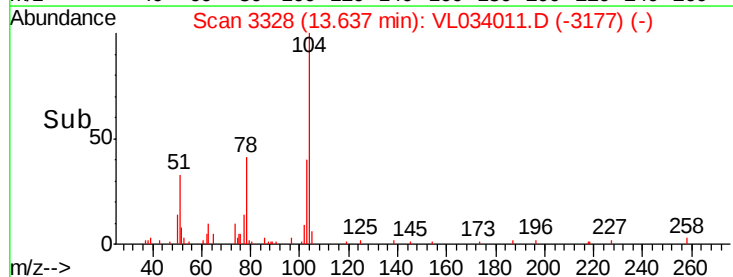
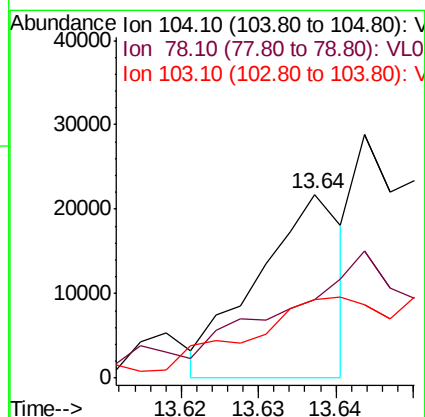
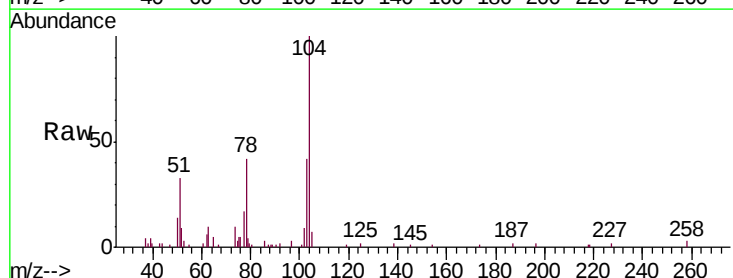
Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT3-2019

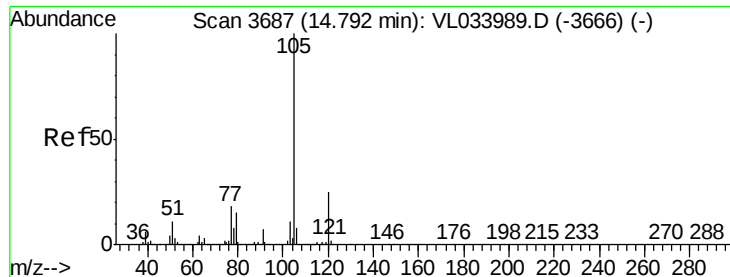
Tgt Ion: 91 Resp: 94577
Ion Ratio Lower Upper
91 100
106 41.2 21.9 65.7



#61
Styrene
Concen: 0.085 ppbv
RT: 13.64 min Scan# 3328
Delta R.T. -0.01 min
Lab File: VL034011.D
Acq: 8 Jul 2019 14:48

Tgt Ion: 104 Resp: 16764
Ion Ratio Lower Upper
104 100
78 0.0 43.9 65.9#
103 0.0 38.1 57.1#





#62

Isopropylbenzene

Concen: 0.295 ppbv

RT: 14.78 min Scan# 3684

Delta R.T. -0.01 min

Lab File: VL034011.D

Acq: 8 Jul 2019 14:48

Instrument :

MSVOA_L

ClientSampleId :

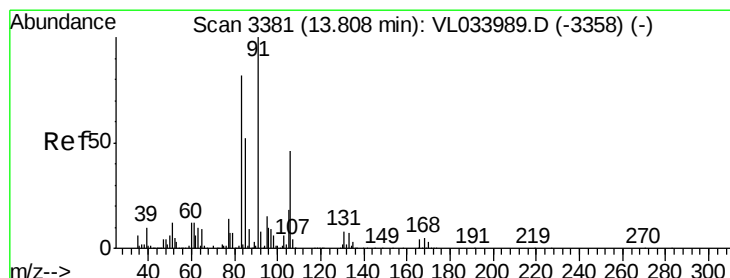
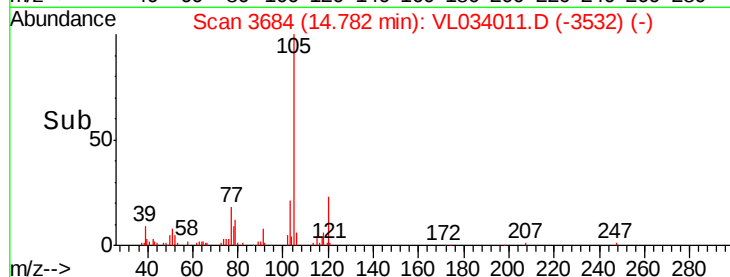
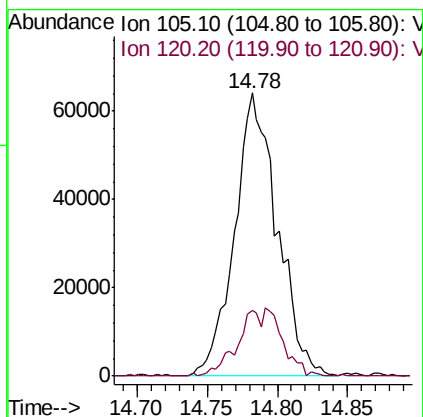
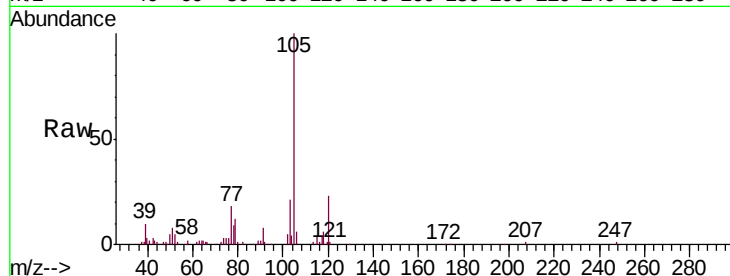
MDL-MDL-AIR-03-QT3-2019

Tgt Ion: 105 Resp: 135682

Ion Ratio Lower Upper

105 100

120 24.7 20.4 30.6



#63

1,1,2,2-Tetrachloroethane

Concen: 0.178 ppbv

RT: 13.80 min Scan# 3378

Delta R.T. -0.01 min

Lab File: VL034011.D

Acq: 8 Jul 2019 14:48

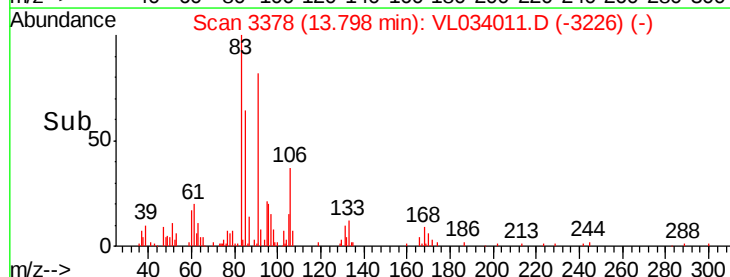
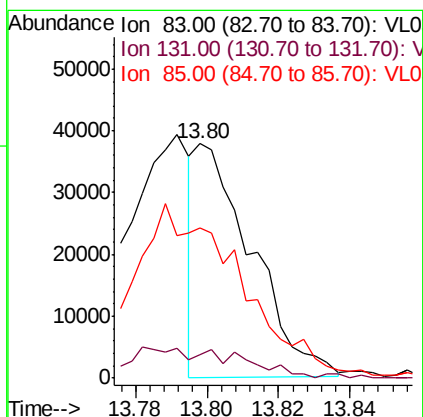
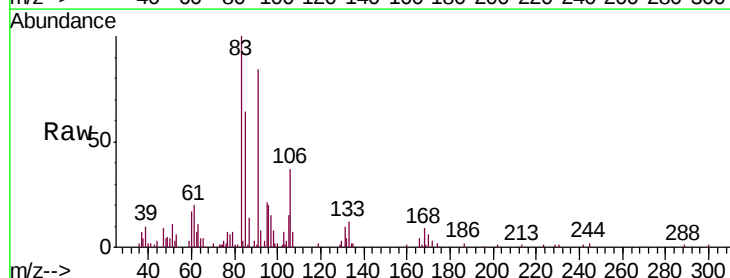
Tgt Ion: 83 Resp: 41111

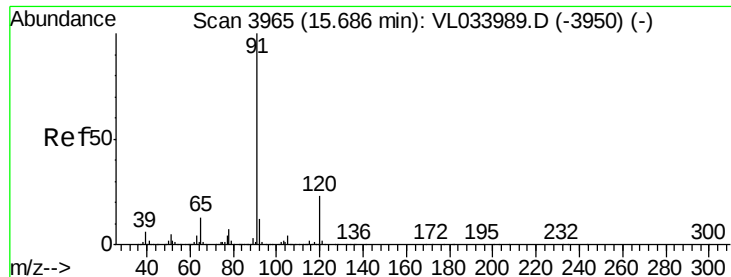
Ion Ratio Lower Upper

83 100

131 0.0 5.0 14.9#

85 0.0 32.8 98.3#





#64

n-propylbenzene

Concen: 0.251 ppbv

RT: 15.69 min Scan# 3965

Delta R.T. -0.00 min

Lab File: VL034011.D

Acq: 8 Jul 2019 14:48

Instrument :

MSVOA_L

ClientSampleId :

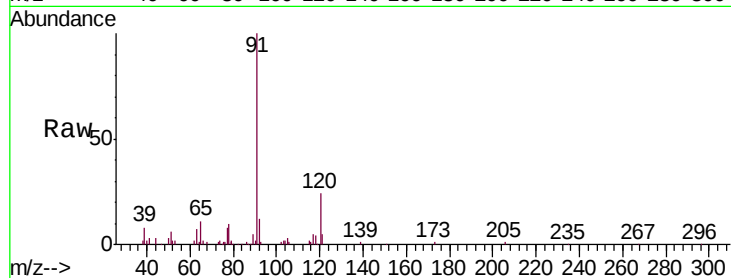
MDL-MDL-AIR-03-QT3-2019

Tgt Ion:120 Resp: 29971

Ion Ratio Lower Upper

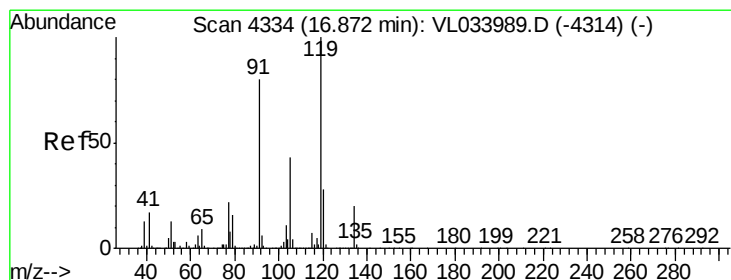
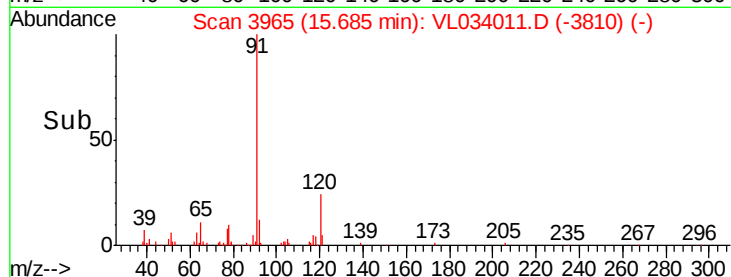
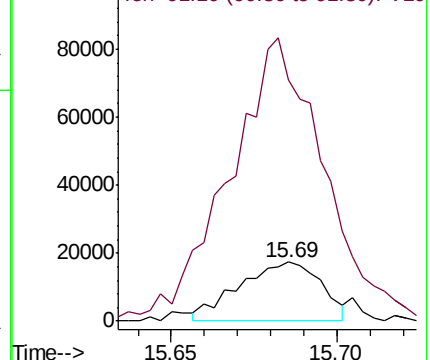
120 100

91 566.7 386.6 579.8



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#65

tert-Butylbenzene

Concen: 0.277 ppbv

RT: 16.87 min Scan# 4332

Delta R.T. -0.01 min

Lab File: VL034011.D

Acq: 8 Jul 2019 14:48

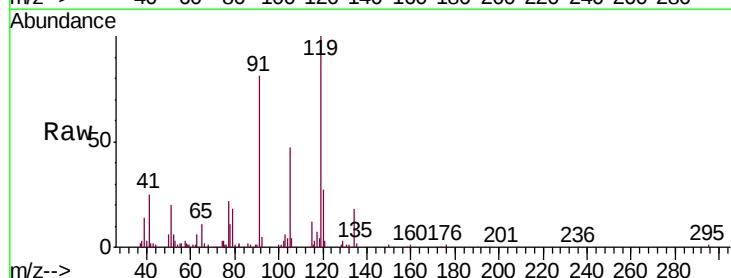
Tgt Ion:119 Resp: 108283

Ion Ratio Lower Upper

119 100

91 97.1 67.0 100.6

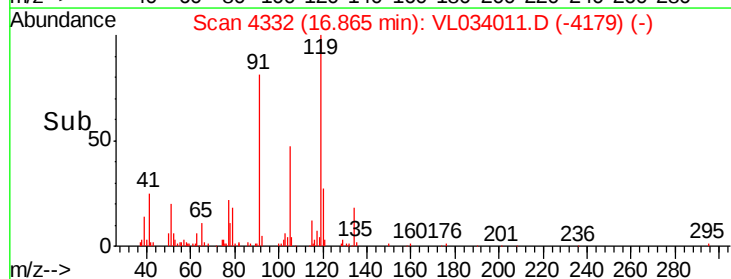
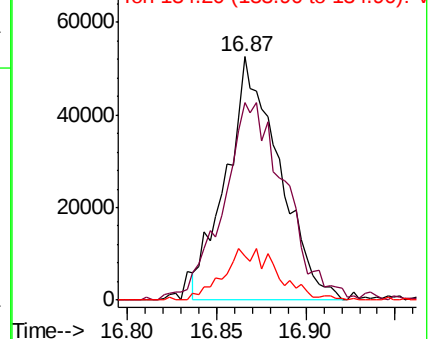
134 21.4 15.8 23.6

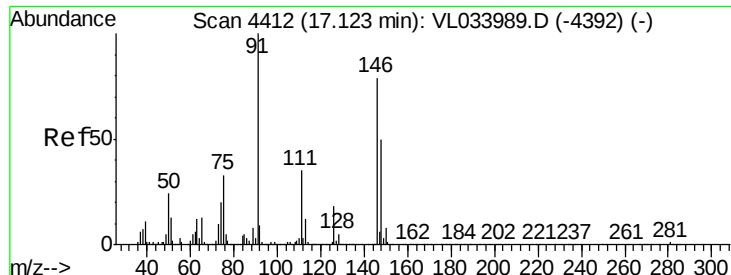


Abundance Ion 119.20 (118.90 to 119.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 134.20 (133.90 to 134.90): V

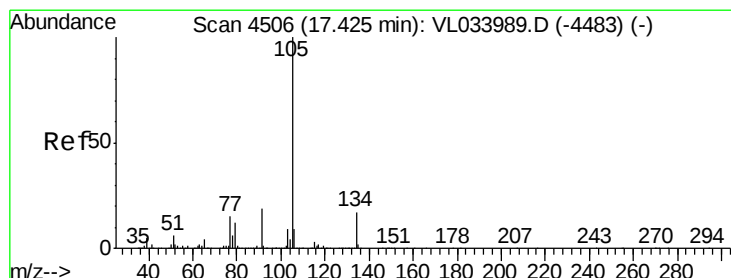
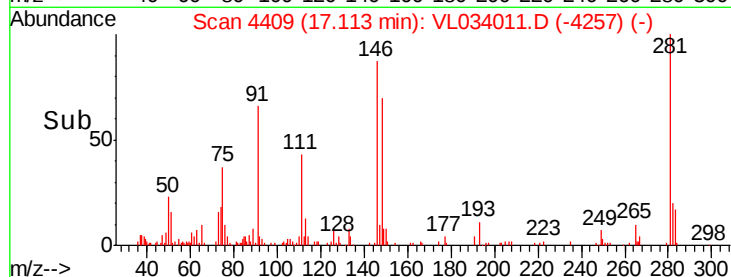
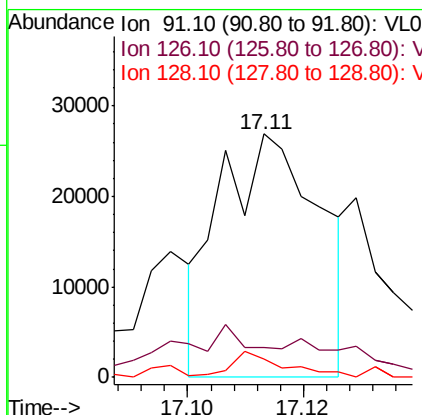
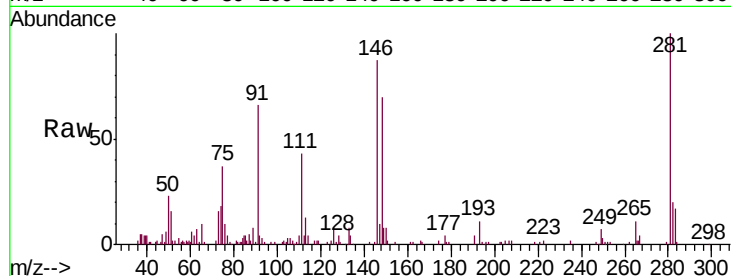




#66
Benzyl Chloride
Concen: 0.161 ppbv
RT: 17.11 min Scan# 4409
Delta R.T. -0.01 min
Lab File: VL034011.D
Acq: 8 Jul 2019 14:48

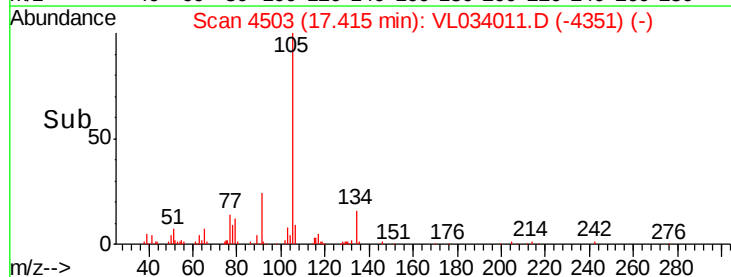
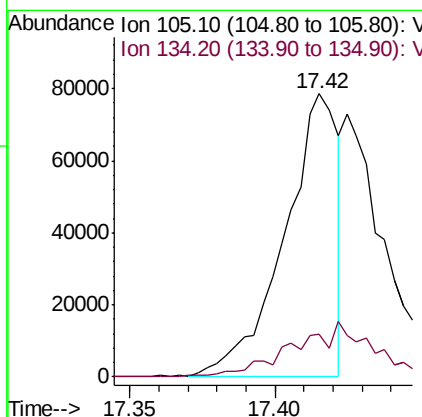
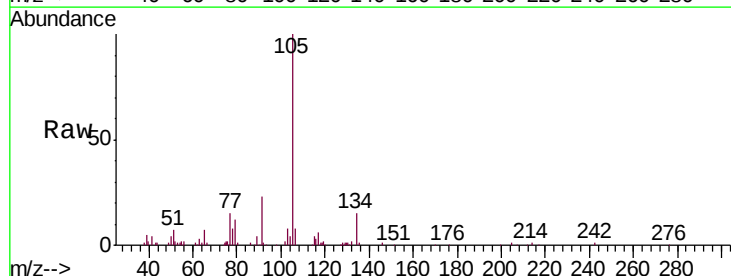
Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT3-2019

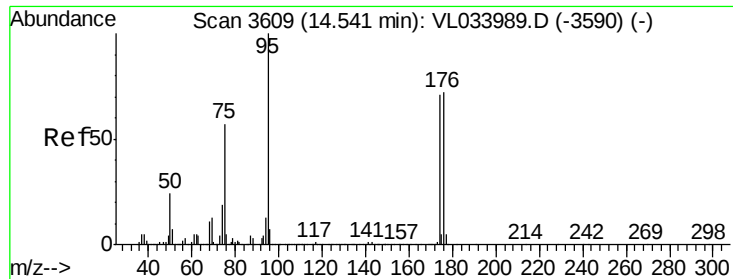
Tgt Ion: 91 Resp: 32196
Ion Ratio Lower Upper
91 100
126 34.9 13.9 20.9#
128 8.4 4.6 7.0#



#67
sec-Butylbenzene
Concen: 0.184 ppbv
RT: 17.42 min Scan# 4503
Delta R.T. -0.01 min
Lab File: VL034011.D
Acq: 8 Jul 2019 14:48

Tgt Ion: 105 Resp: 100711
Ion Ratio Lower Upper
105 100
134 0.0 14.7 22.1#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.355 ppbv

RT: 14.53 min Scan# 3607

Delta R.T. -0.01 min

Lab File: VL034011.D

Acq: 8 Jul 2019 14:48

Instrument :

MSVOA_L

ClientSampleId :

MDL-MDL-AIR-03-QT3-2019

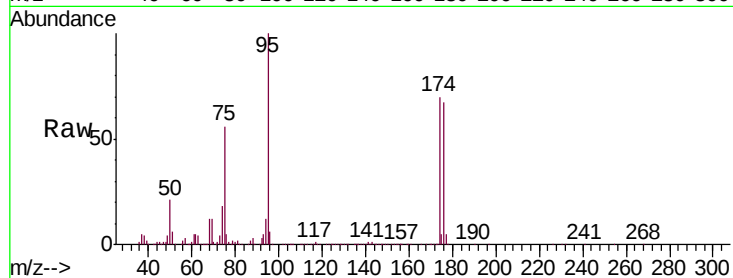
Tgt Ion: 95 Resp: 2190016

Ion Ratio Lower Upper

95 100

174 72.9 60.5 90.7

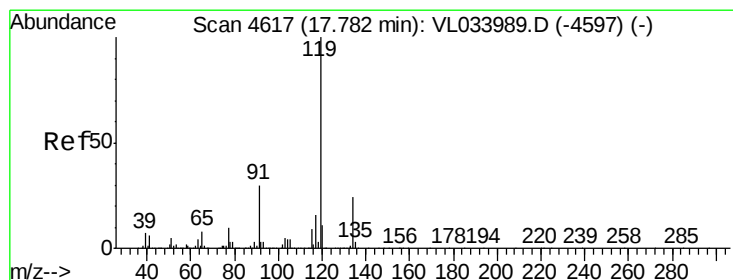
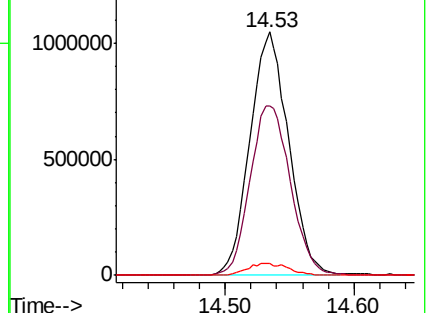
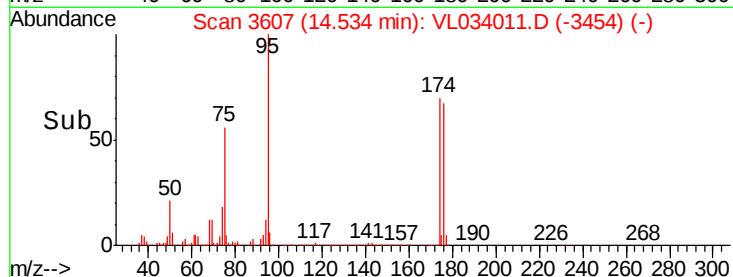
175 5.3 4.0 6.0



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V



#69

p-Isopropyltoluene

Concen: 0.277 ppbv

RT: 17.78 min Scan# 4616

Delta R.T. -0.00 min

Lab File: VL034011.D

Acq: 8 Jul 2019 14:48

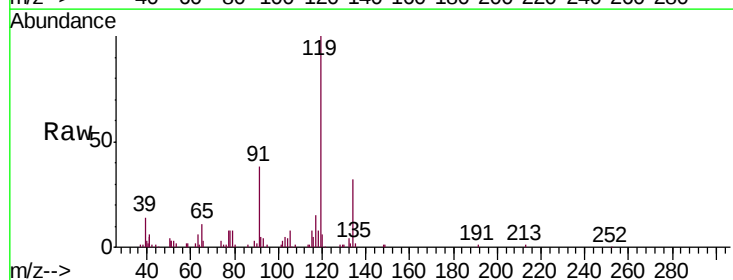
Tgt Ion: 119 Resp: 125431

Ion Ratio Lower Upper

119 100

134 26.6 20.1 30.1

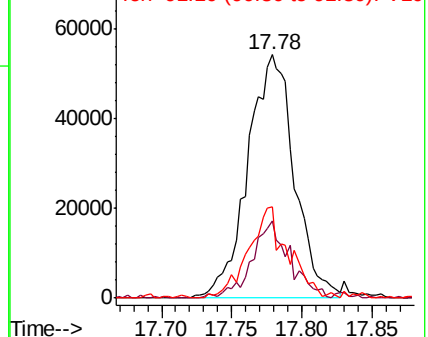
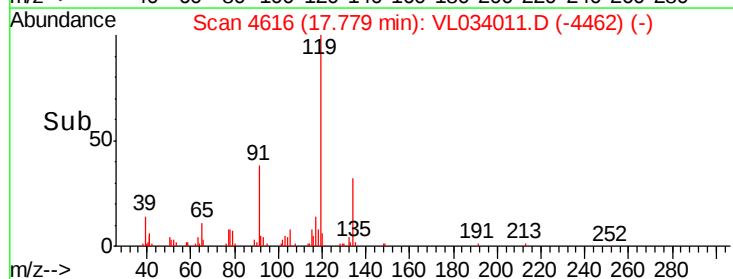
91 31.9 23.6 35.4

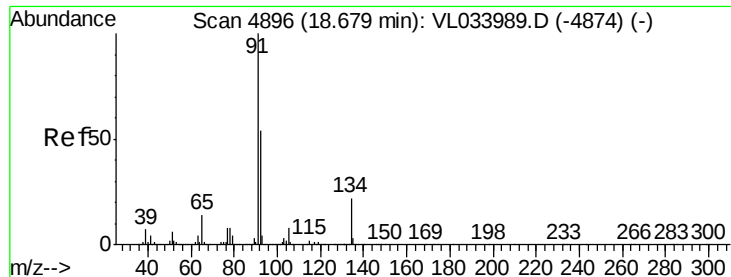


Abundance Ion 119.10 (118.80 to 119.80): V

Ion 134.20 (133.90 to 134.90): V

Ion 91.10 (90.80 to 91.80): VL0

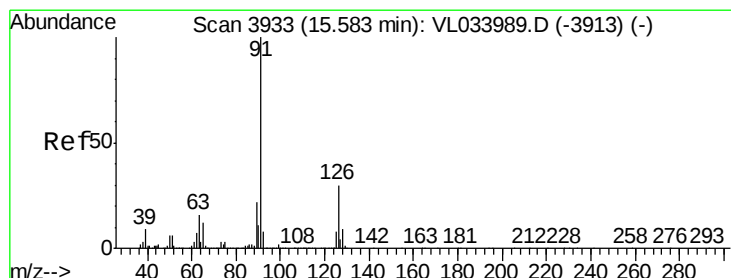
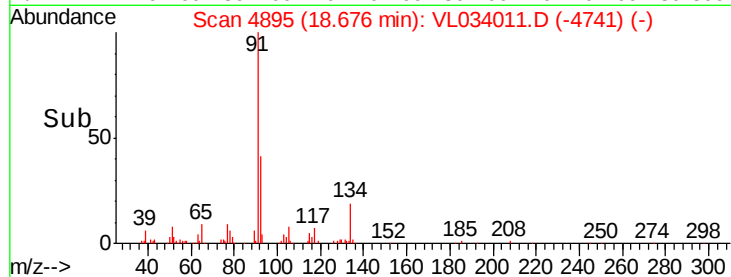
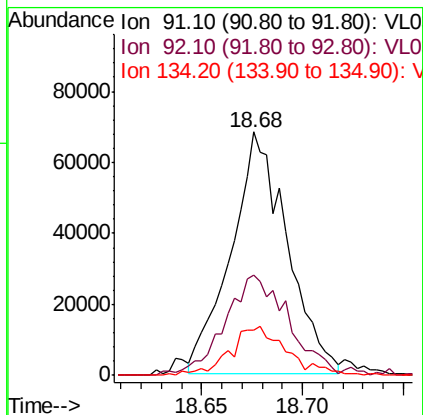
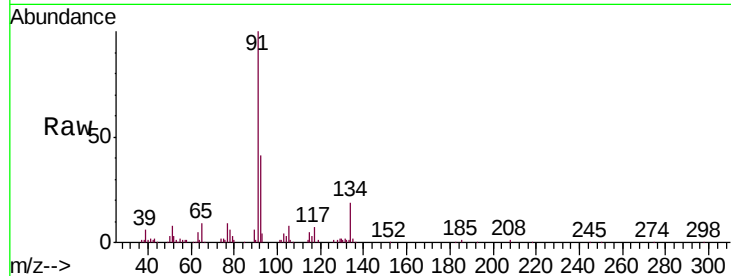




#70
n-Butylbenzene
Concen: 0.278 ppbv
RT: 18.68 min Scan# 4895
Delta R.T. -0.00 min
Lab File: VL034011.D
Acq: 8 Jul 2019 14:48

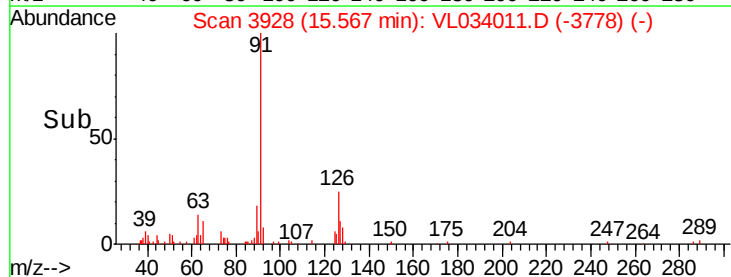
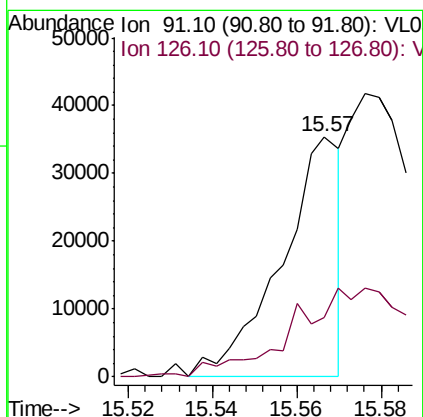
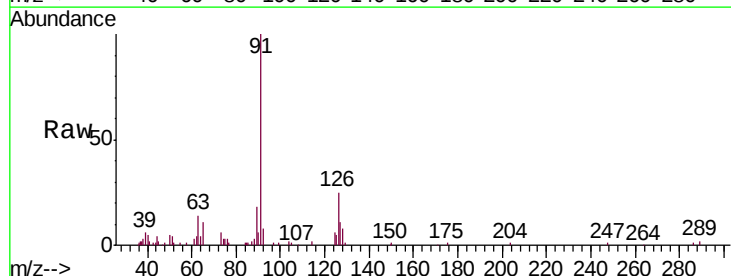
Instrument :
MSVOA_L
ClientSampleId :
MDL-MDL-AIR-03-QT3-2019

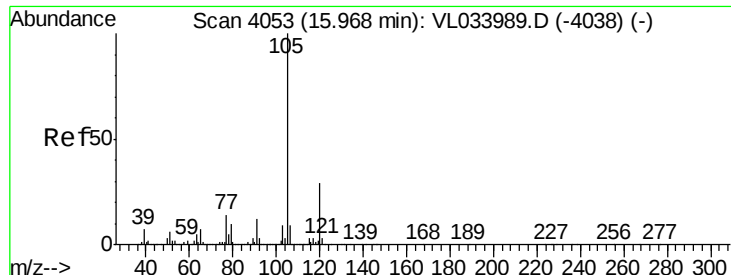
Tgt Ion: 91 Resp: 132014
Ion Ratio Lower Upper
91 100
92 48.6 42.0 63.0
134 20.7 17.9 26.9



#71
2-Chlorotoluene
Concen: 0.104 ppbv
RT: 15.57 min Scan# 3928
Delta R.T. -0.02 min
Lab File: VL034011.D
Acq: 8 Jul 2019 14:48

Tgt Ion: 91 Resp: 34846
Ion Ratio Lower Upper
91 100
126 84.9 12.3 49.3#





#72

4-Ethyltoluene

Concen: 0.217 ppbv

RT: 15.96 min Scan# 4050

Delta R.T. -0.01 min

Lab File: VL034011.D

Acq: 8 Jul 2019 14:48

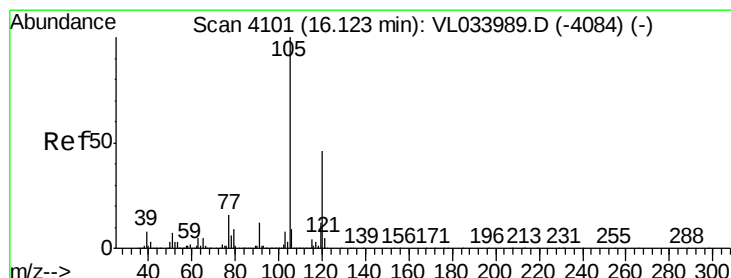
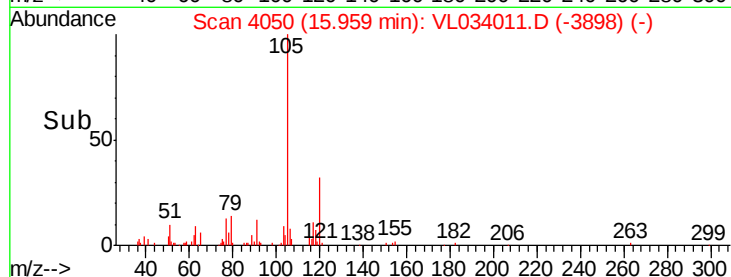
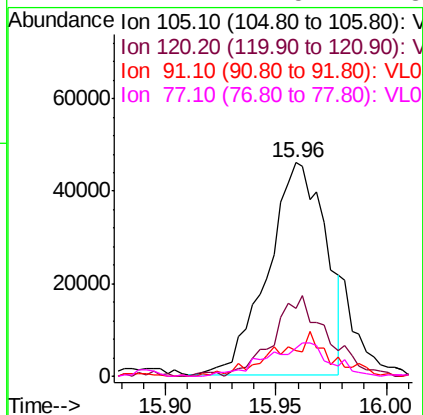
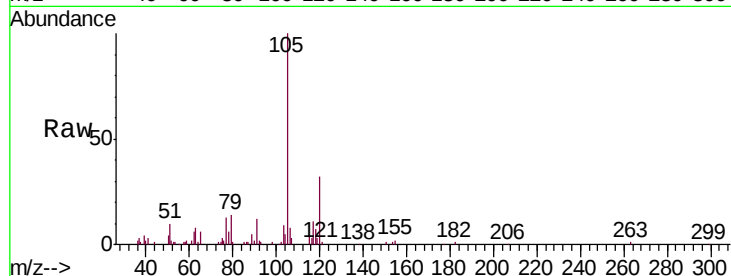
Instrument :

MSVOA_L

ClientSampleId :

MDL-MDL-AIR-03-QT3-2019

Tgt Ion:	105	Resp:	83160
Ion	Ratio	Lower	Upper
105	100		
120	36.5	24.1	36.1#
91	19.6	10.6	16.0#
77	17.4	11.5	17.3#



#73

1,3,5-Trimethylbenzene

Concen: 0.147 ppbv

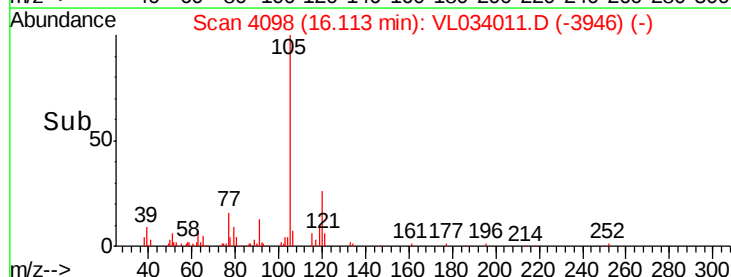
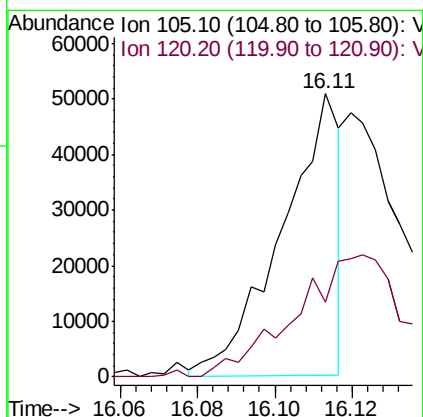
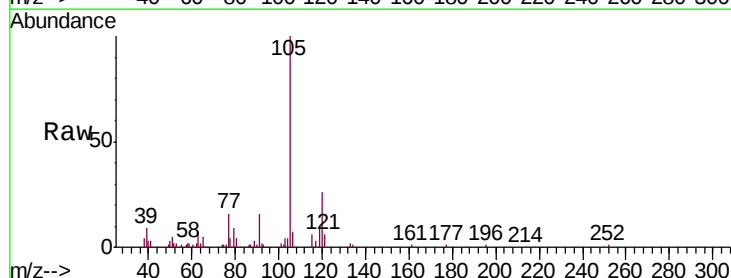
RT: 16.11 min Scan# 4098

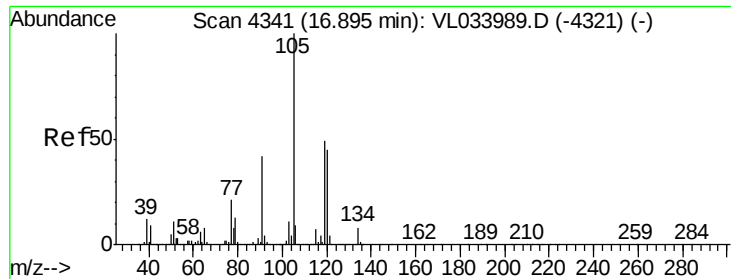
Delta R.T. -0.01 min

Lab File: VL034011.D

Acq: 8 Jul 2019 14:48

Tgt Ion:	105	Resp:	52578
Ion	Ratio	Lower	Upper
105	100		
120	27.0	36.4	54.6#

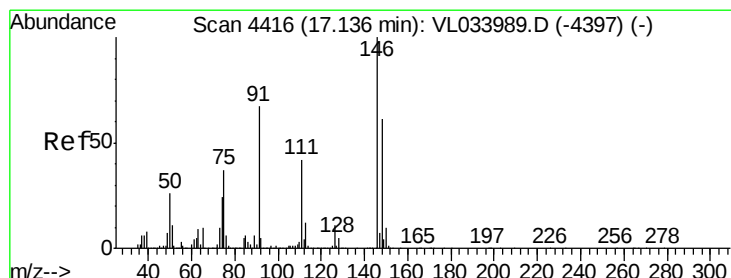
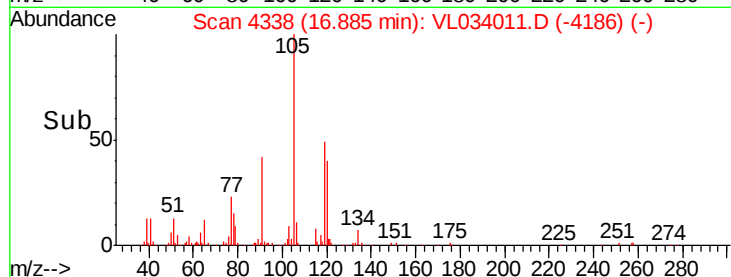
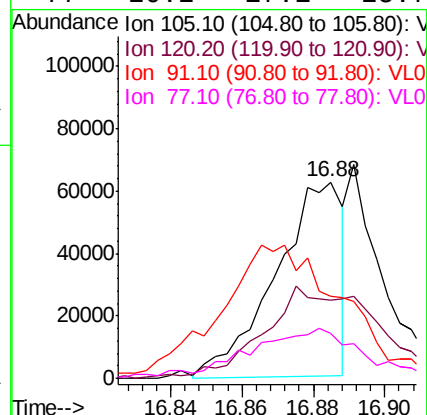
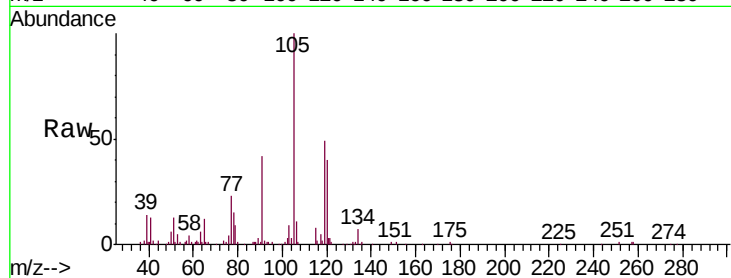




#74
 1,2,4-Trimethylbenzene
 Concen: 0.205 ppbv
 RT: 16.88 min Scan# 4338
 Delta R.T. -0.01 min
 Lab File: VL034011.D
 Acq: 8 Jul 2019 14:48

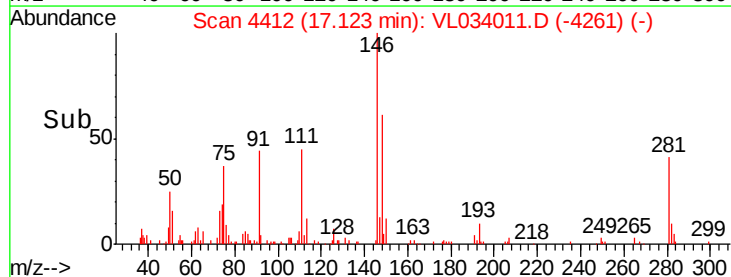
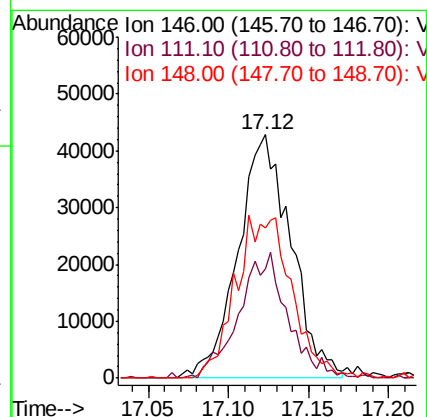
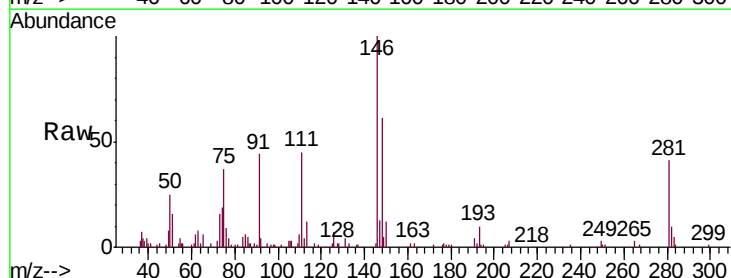
Instrument :
 MSVOA_L
 ClientSampleId :
 MDL-MDL-AIR-03-QT3-2019

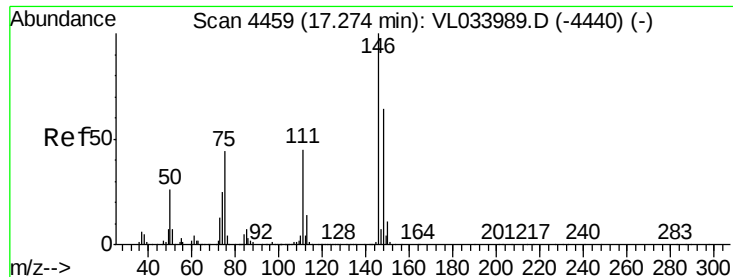
Tgt Ion:	105	Resp:	80988
Ion	Ratio	Lower	Upper
105	100		
120	41.3	36.2	54.2
91	18.3	34.3	51.5#
77	20.2	17.1	25.7



#75
 1,3-Dichlorobenzene
 Concen: 0.384 ppbv
 RT: 17.12 min Scan# 4412
 Delta R.T. -0.01 min
 Lab File: VL034011.D
 Acq: 8 Jul 2019 14:48

Tgt Ion:	146	Resp:	96515
Ion	Ratio	Lower	Upper
146	100		
111	48.1	22.3	66.9
148	70.3	32.0	96.2





#76

1,4-Dichlorobenzene

Concen: 0.159 ppbv

RT: 17.26 min Scan# 4455

Delta R.T. -0.01 min

Lab File: VL034011.D

Acq: 8 Jul 2019 14:48

Instrument :

MSVOA_L

ClientSampleId :

MDL-MDL-AIR-03-QT3-2019

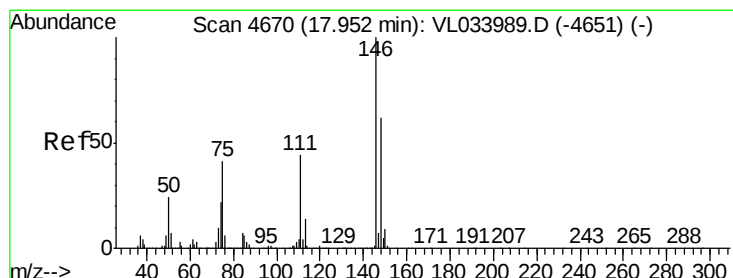
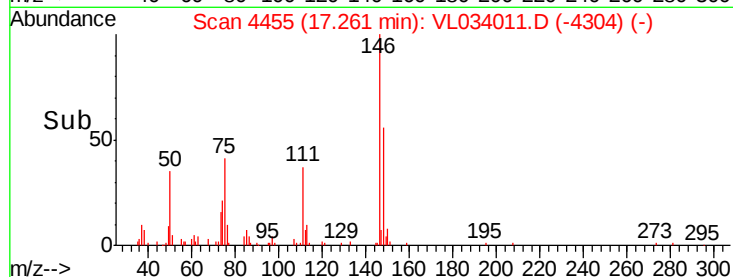
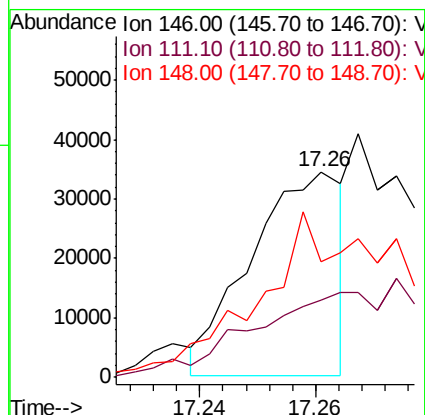
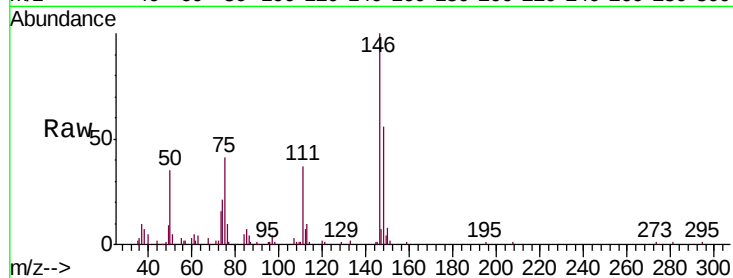
Tgt Ion:146 Resp: 37666

Ion Ratio Lower Upper

146 100

111 0.0 21.9 65.5#

148 144.2 32.5 97.5#



#77

1,2-Dichlorobenzene

Concen: 0.375 ppbv

RT: 17.95 min Scan# 4668

Delta R.T. -0.01 min

Lab File: VL034011.D

Acq: 8 Jul 2019 14:48

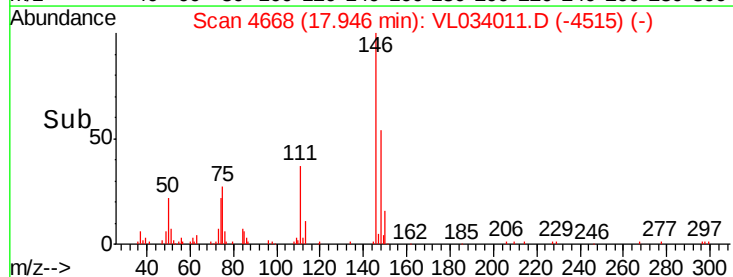
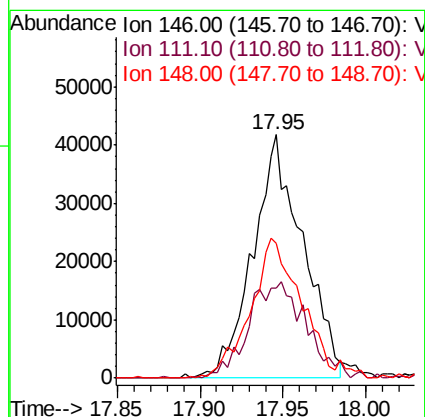
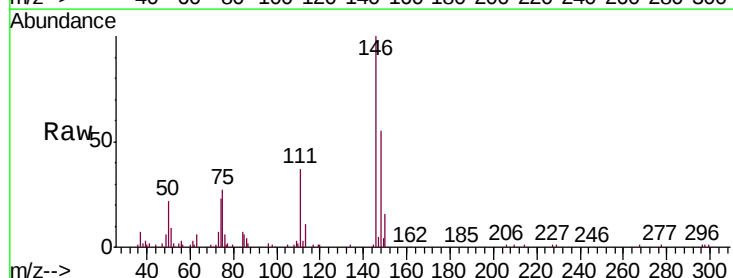
Tgt Ion:146 Resp: 87215

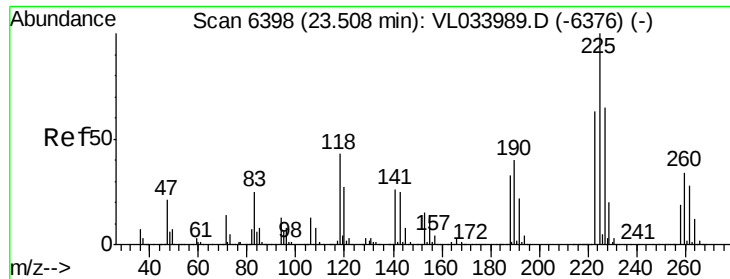
Ion Ratio Lower Upper

146 100

111 46.4 22.7 68.1

148 59.6 32.1 96.3





#78

Hexachloro-1,3-Butadiene

Concen: 0.169 ppbv

RT: 23.50 min Scan# 6395

Delta R.T. -0.01 min

Lab File: VL034011.D

Acq: 8 Jul 2019 14:48

Instrument :

MSVOA_L

ClientSampleId :

MDL-MDL-AIR-03-QT3-2019

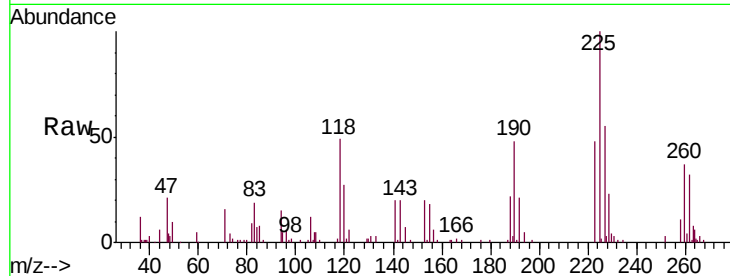
Tgt Ion:225 Resp: 33472

Ion Ratio Lower Upper

225 100

223 0.0 51.5 77.3#

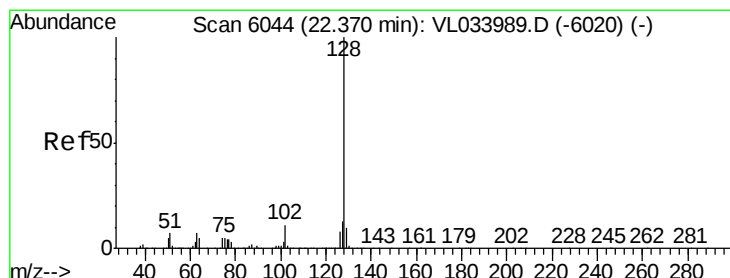
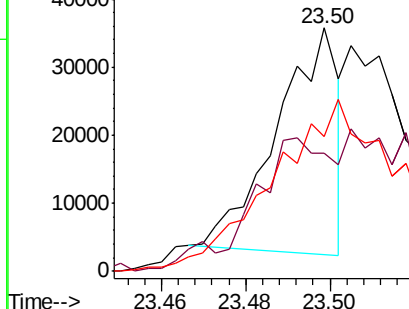
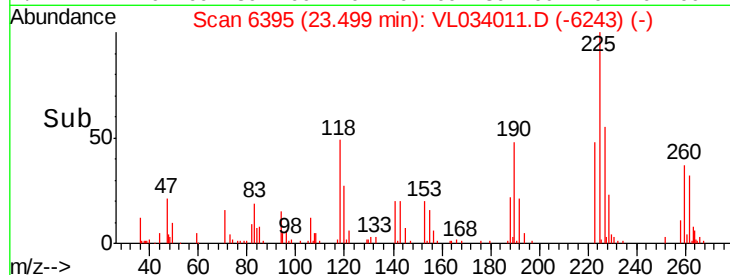
227 0.0 52.1 78.1#



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: 0.132 ppbv

RT: 22.36 min Scan# 6042

Delta R.T. -0.01 min

Lab File: VL034011.D

Acq: 8 Jul 2019 14:48

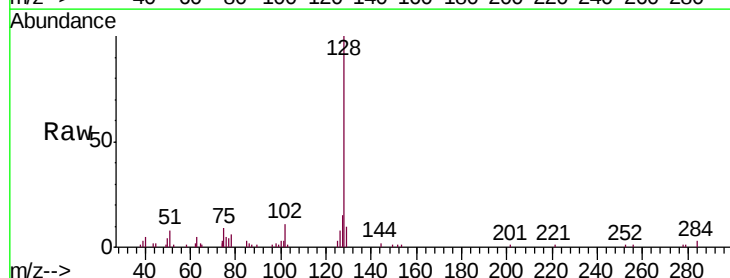
Tgt Ion:128 Resp: 44030

Ion Ratio Lower Upper

128 100

127 14.6 10.6 15.8

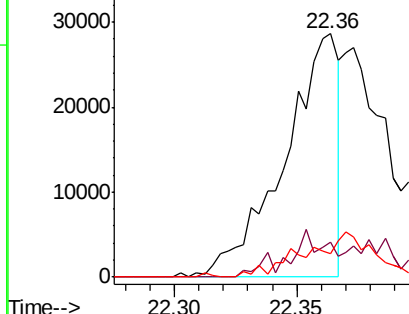
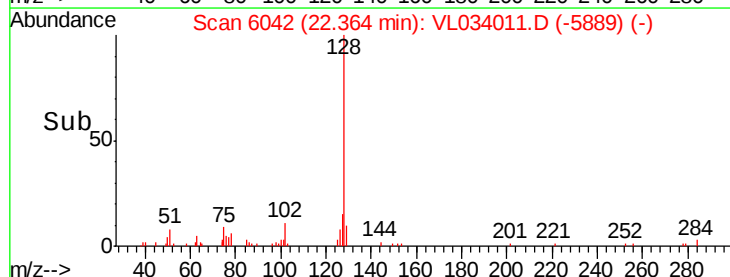
129 9.5 8.3 12.5

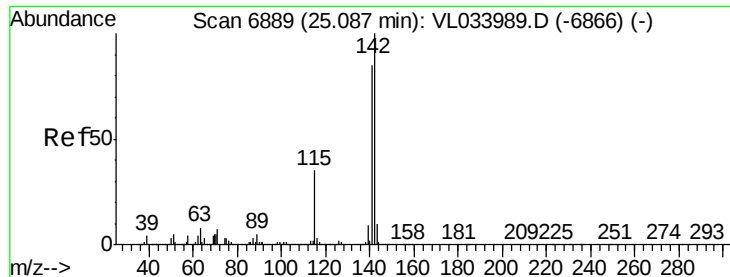


Abundance Ion 128.10 (127.80 to 128.80): V

Ion 127.10 (126.80 to 127.80): V

Ion 129.10 (128.80 to 129.80): V





#80

Naphthalene, 2-methyl-

Concen: 0.313 ppbv

RT: 25.08 min Scan# 6887

Delta R.T. -0.01 min

Lab File: VL034011.D

Acq: 8 Jul 2019 14:48

Instrument :

MSVOA_L

ClientSampleId :

MDL-MDL-AIR-03-QT3-2019

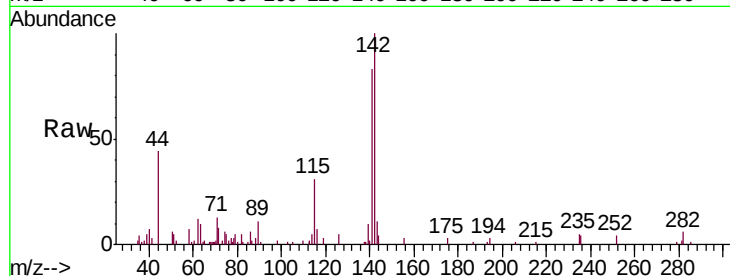
Tgt Ion:142 Resp: 37913

Ion Ratio Lower Upper

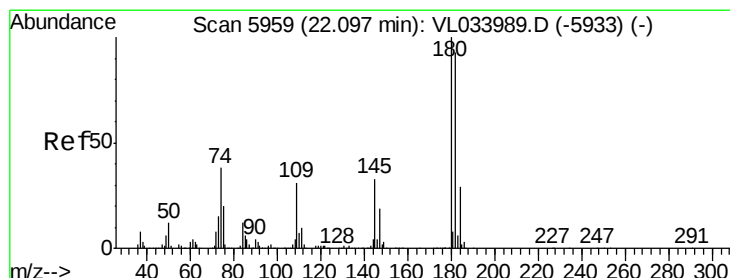
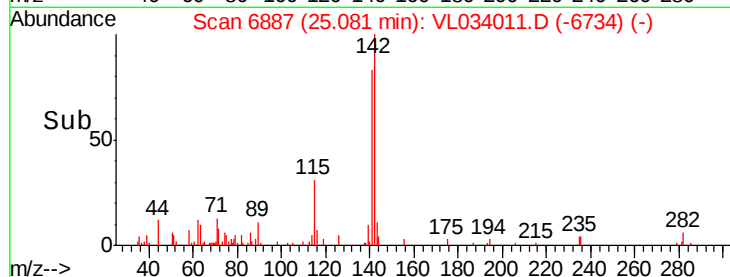
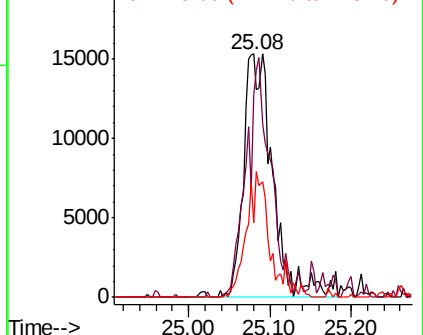
142 100

141 82.2 68.2 102.2

115 40.5 29.9 44.9



Abundance Ion 142.00 (141.70 to 142.70): V
Ion 141.00 (140.70 to 141.70): V
Ion 115.00 (114.70 to 115.70): V



#81

1,2,4-Trichlorobenzene

Concen: 0.199 ppbv

RT: 22.09 min Scan# 5956

Delta R.T. -0.01 min

Lab File: VL034011.D

Acq: 8 Jul 2019 14:48

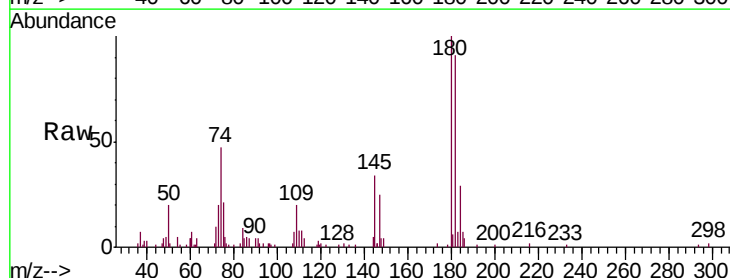
Tgt Ion:180 Resp: 42468

Ion Ratio Lower Upper

180 100

182 161.6 76.6 114.8#

184 0.0 24.6 36.8#



Abundance Ion 180.00 (179.70 to 180.70): V
Ion 182.00 (181.70 to 182.70): V
Ion 184.00 (183.70 to 184.70): V

