

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL101719\
 Data File : VL034327.D
 Acq On : 17 Oct 2019 22:02
 Operator : SY/AP
 Sample : K5409-02
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Quant Time: Oct 18 04:35:34 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	5.70	49	962746	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.22	114	1994680	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.17	117	2011668	10.00	ppbv	0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.50	95	1708113	10.03	ppbv	0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.30%

Target Compounds					Qvalue
2) Dichlorodifluoromethane	3.03	85	37519	0.226	ppbv # 83
3) Chlorodifluoromethane	2.97	51	46730	0.414	ppbv # 86
4) Chloromethane	3.12	50	147625	2.212	ppbv # 98
5) Vinyl Chloride	3.24	62	27637	0.434	ppbv # 87
6) Bromomethane	3.46	94	1008	0.032	ppbv # 83
7) Chloroethane	3.54	64	4797	0.214	ppbv # 74
9) Propene	2.99	41	4254322	85.048	ppbv # 97
10) Heptane	8.17	43	419286	3.266	ppbv # 98
11) Trichlorofluoromethane	3.94	101	44719	0.284	ppbv # 85
12) 1,1,2-Trichlorotrifluoroet	4.49	101	6323	0.061	ppbv # 77
13) Ethanol	3.60	45	75566	6.747	ppbv # 92
15) Acetone	3.84	43	8932318	64.865	ppbv # 60
16) 1,3-Butadiene	3.29	39	2913841	52.077	ppbv # 28
17) tert-Butyl alcohol	4.30	59	167192	1.902	ppbv # 95
18) 1,1-Dichloroethene	4.29	96	2989	0.066	ppbv # 49
19) Isopropyl Alcohol	3.97	45	83920	1.092	ppbv # 95
20) Methylene Chloride	4.35	84	36112	0.725	ppbv # 82
21) Allyl Chloride	4.41	41	40330	0.530	ppbv # 1
23) Vinyl Acetate	5.07	43	92382	0.537	ppbv # 1
25) Ethyl Acetate	5.71	43	383699	1.650	ppbv # 78
26) Hexane	5.71	57	512605	5.173	ppbv # 37
27) Carbon Disulfide	4.56	76	728289	7.079	ppbv # 98
28) Methyl tert-Butyl Ether	5.05	73	4644	0.031	ppbv # 51
29) Chloroform	5.78	83	349077	2.227	ppbv # 99
30) Cyclohexane	7.17	84	139276	1.911	ppbv # 88
31) cis-1,2-Dichloroethene	5.58	61	110508	1.099	ppbv # 96
32) 1,1,1-Trichloroethane	6.55	97	7547	0.050	ppbv # 17
34) 2-Butanone	5.26	43	1005171	6.165	ppbv # 97
36) Benzene	6.93	78	1003486	5.243	ppbv # 97
38) Trichloroethene	7.88	130	279920	3.645	ppbv # 92
39) 1,2-Dichloropropane	7.22	63	562285	6.823	ppbv # 22
41) Tetrahydrofuran	6.08	42	8892	0.098	ppbv # 2
42) Bromodichloromethane	7.85	83	6769	0.039	ppbv # 28
43) Methyl Methacrylate	8.06	69	10010	0.126	ppbv # 1
44) 2,2,4-Trimethylpentane	7.92	57	257399	0.727	ppbv # 64
50) 4-Methyl-2-Pentanone	8.79	43	52025	0.223	ppbv # 40
51) 2-Hexanone	10.18	43	28775	0.150	ppbv # 30
52) Tetrachloroethene	11.38	164	27171202	362.198	ppbv # 92
53) Toluene	9.87	91	2558229	12.112	ppbv # 99
56) 1,1,1,2-Tetrachloroethane	12.21	131	5504	0.059	ppbv # 1
58) Ethyl Benzene	12.80	91	764340	2.718	ppbv # 93

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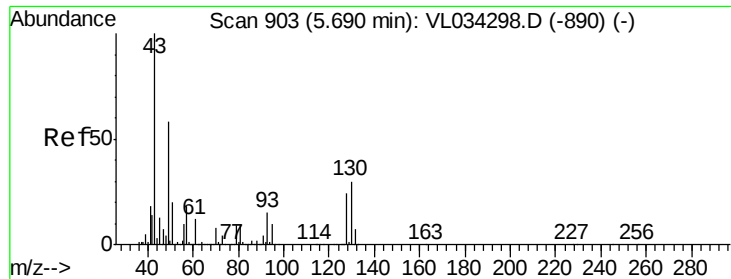
Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Quant Time: Oct 18 04:35:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101619AIR.M
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

59) m/p-Xylene	13.05	91	2198893	9.025	ppbv	99
60) o-Xylene	13.78	91	877369	3.616	ppbv	100
61) Styrene	13.62	104	31393	0.184	ppbv #	2
62) Isopropylbenzene	14.75	105	39369	0.123	ppbv #	65
63) 1,1,2,2-Tetrachloroethane	13.65	83	17077	0.088	ppbv	84
64) n-propylbenzene	15.65	120	20933	0.255	ppbv #	1
65) tert-Butylbenzene	16.84	119	38550	0.136	ppbv #	14
69) p-Isopropyltoluene	17.75	119	18297	0.056	ppbv #	48
70) n-Butylbenzene	18.66	91	42059	0.119	ppbv #	20
71) 2-Chlorotoluene	15.40	91	85098	0.343	ppbv	81
72) 4-Ethyltoluene	15.93	105	322504	1.183	ppbv	98
73) 1,3,5-Trimethylbenzene	16.08	105	178722	0.661	ppbv	95
74) 1,2,4-Trimethylbenzene	16.85	105	960841	3.410	ppbv #	73
79) Naphthalene	22.33	128	39885	0.194	ppbv #	93
80) Naphthalene,2-methyl-	25.04	142	12581	0.211	ppbv #	85

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.70 min Scan# 905

Delta R.T. 0.01 min

Lab File: VL034327.D

Acq: 17 Oct 2019 22:02

Instrument :

MSVOA_L

ClientSampled :

SV2

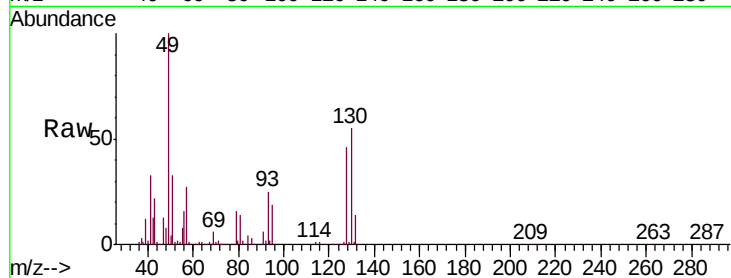
Tgt Ion: 49 Resp: 962746

Ion Ratio Lower Upper

49 100

128 43.6 20.6 61.8

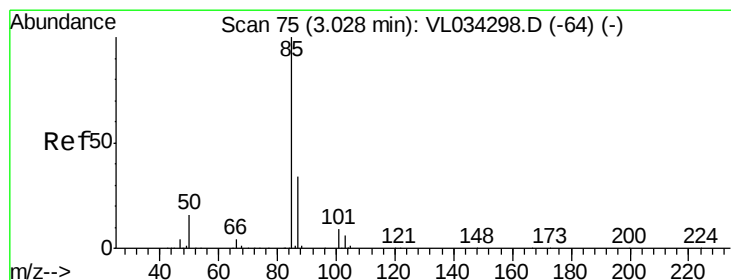
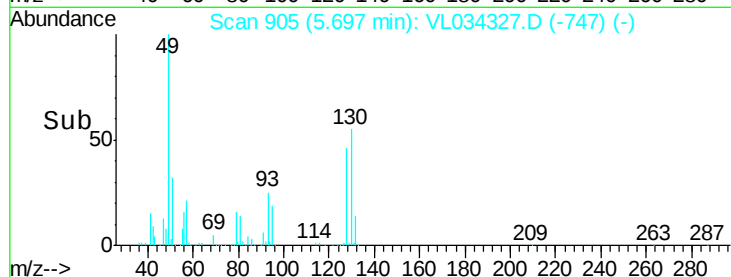
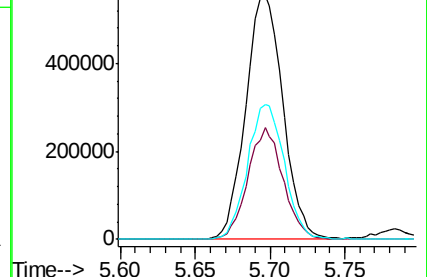
130 54.9 26.2 78.5



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: 0.226 ppbv

RT: 3.03 min Scan# 75

Delta R.T. 0.00 min

Lab File: VL034327.D

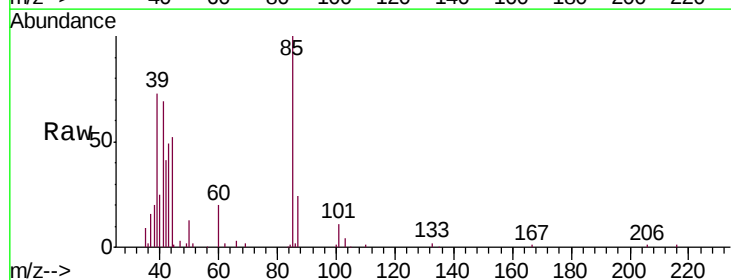
Acq: 17 Oct 2019 22:02

Tgt Ion: 85 Resp: 37519

Ion Ratio Lower Upper

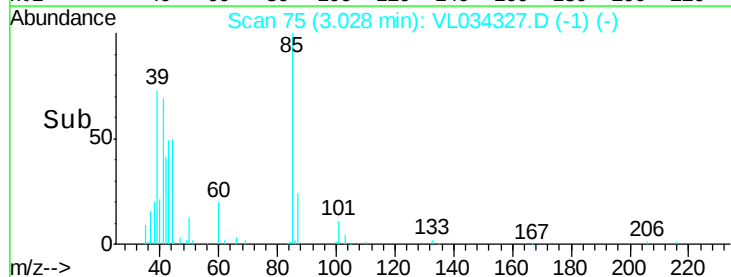
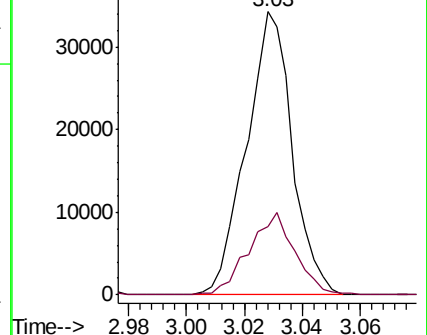
85 100

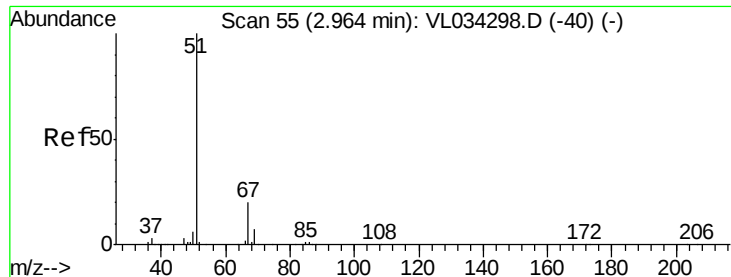
87 24.0 27.0 40.6#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.414 ppbv

RT: 2.97 min Scan# 56

Delta R.T. 0.00 min

Lab File: VL034327.D

Acq: 17 Oct 2019 22:02

Instrument :

MSVOA_L

ClientSampleId :

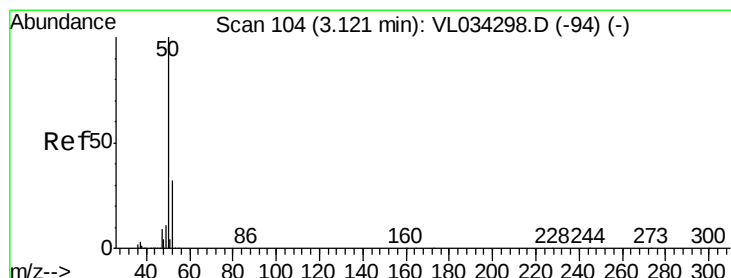
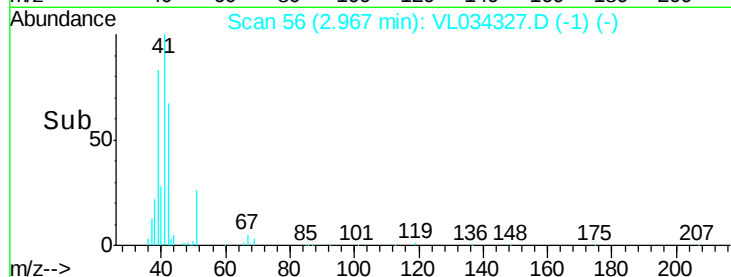
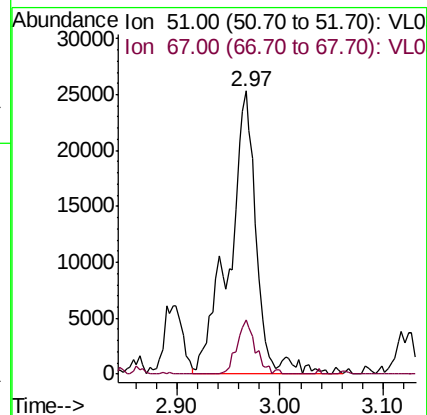
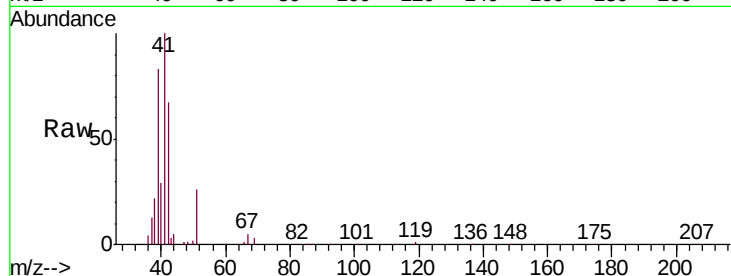
SV2

Tgt Ion: 51 Resp: 46730

Ion Ratio Lower Upper

51 100

67 13.2 15.8 23.8#



#4

Chloromethane

Concen: 2.212 ppbv

RT: 3.12 min Scan# 104

Delta R.T. 0.00 min

Lab File: VL034327.D

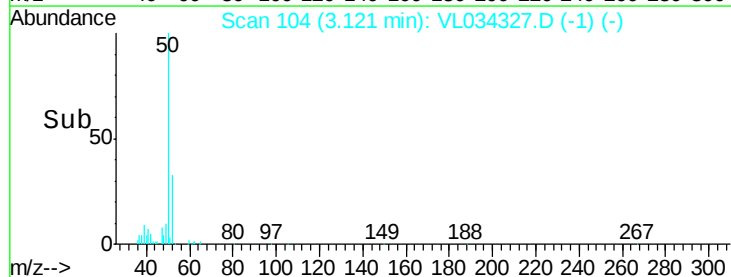
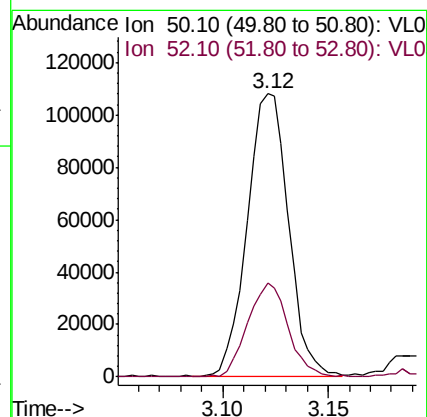
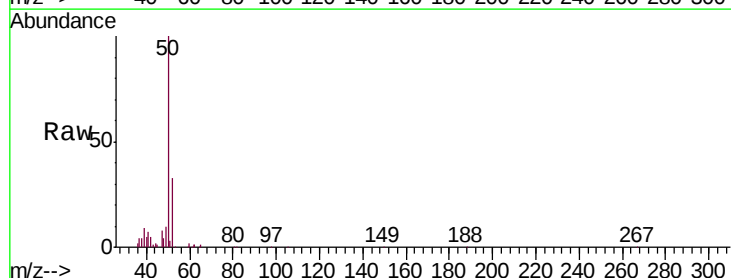
Acq: 17 Oct 2019 22:02

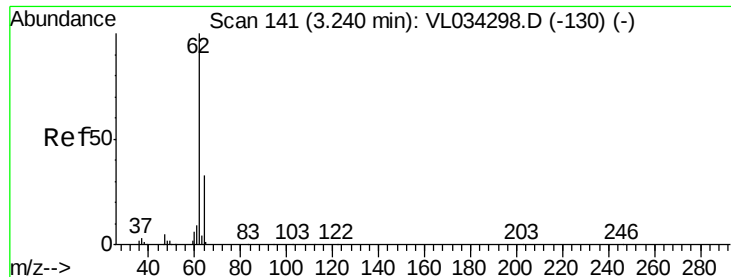
Tgt Ion: 50 Resp: 147625

Ion Ratio Lower Upper

50 100

52 33.1 25.4 38.2





#5

Vinyl Chloride

Concen: 0.434 ppbv

RT: 3.24 min Scan# 141

Delta R.T. 0.00 min

Lab File: VL034327.D

Acq: 17 Oct 2019 22:02

Instrument :

MSVOA_L

ClientSampleId :

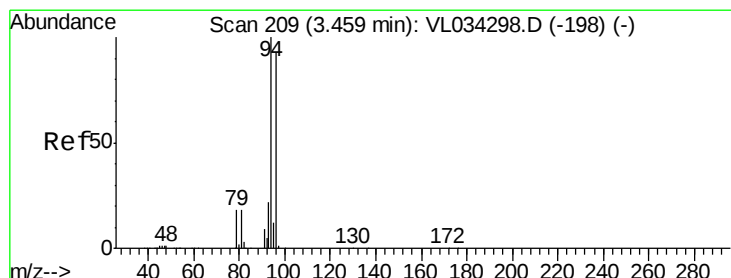
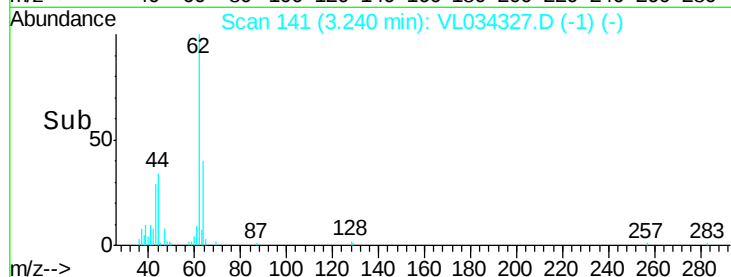
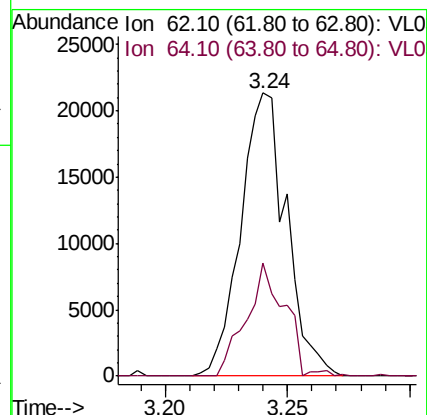
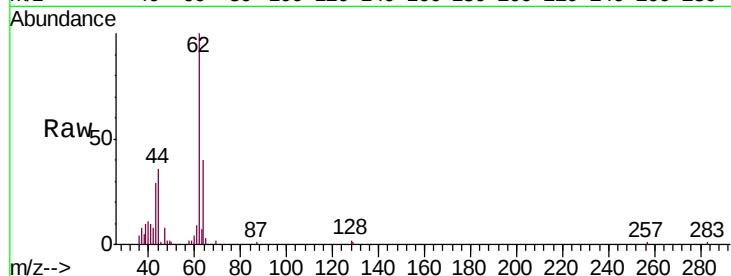
SV2

Tgt Ion: 62 Resp: 27637

Ion Ratio Lower Upper

62 100

64 39.8 26.0 39.0#



#6

Bromomethane

Concen: 0.032 ppbv

RT: 3.46 min Scan# 208

Delta R.T. -0.00 min

Lab File: VL034327.D

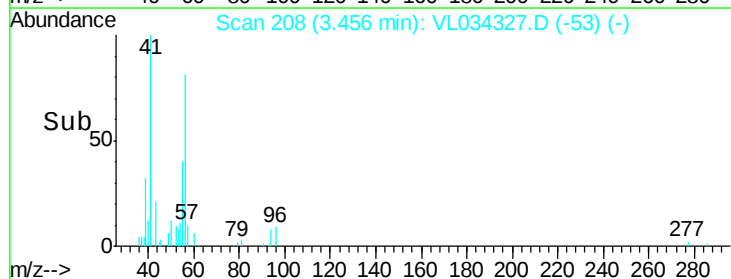
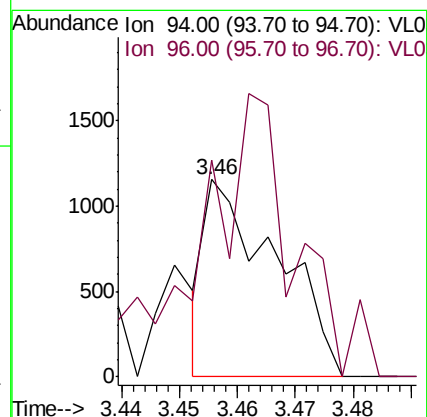
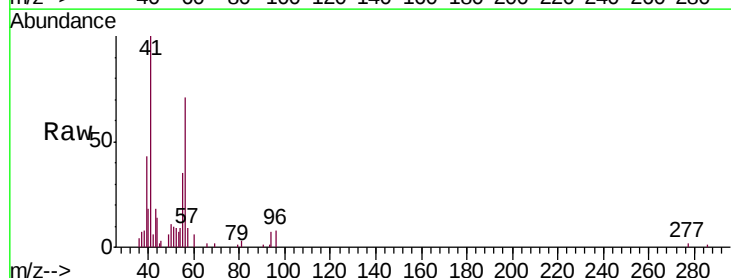
Acq: 17 Oct 2019 22:02

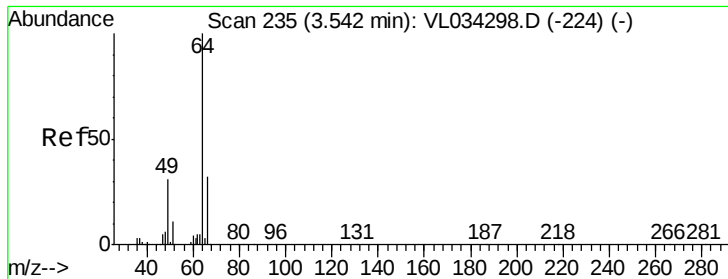
Tgt Ion: 94 Resp: 1008

Ion Ratio Lower Upper

94 100

96 109.6 74.6 112.0





#7

Chloroethane

Concen: 0.214 ppbv

RT: 3.54 min Scan# 234

Delta R.T. -0.00 min

Lab File: VL034327.D

Acq: 17 Oct 2019 22:02

Instrument :

MSVOA_L

ClientSampled :

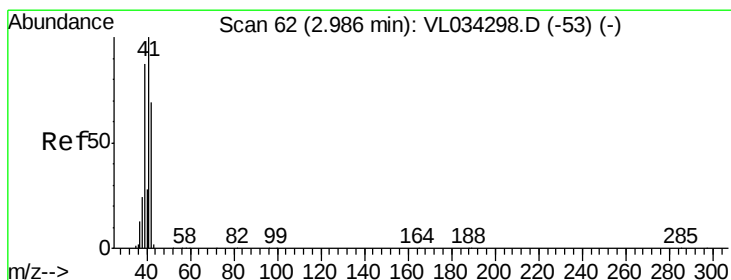
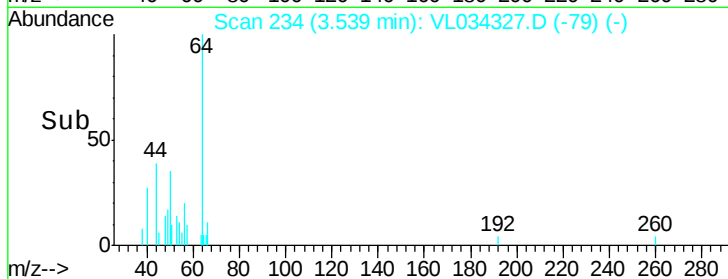
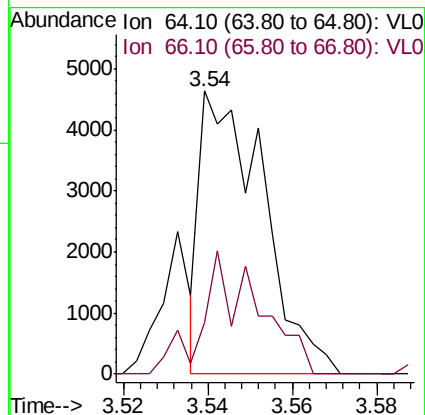
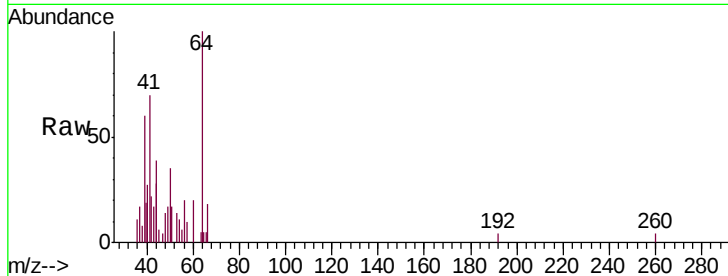
SV2

Tgt Ion: 64 Resp: 4797

Ion Ratio Lower Upper

64 100

66 17.1 25.4 38.0#



#9

Propene

Concen: 85.048 ppbv

RT: 2.99 min Scan# 63

Delta R.T. 0.00 min

Lab File: VL034327.D

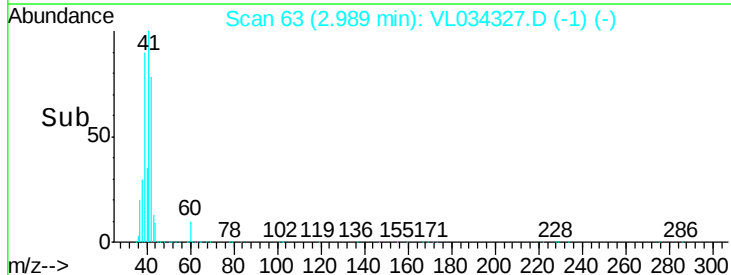
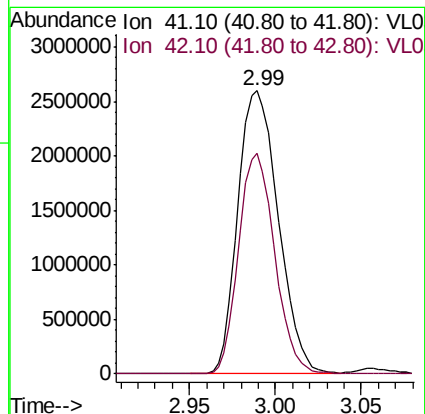
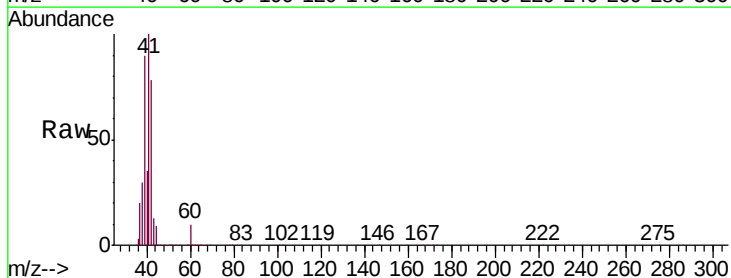
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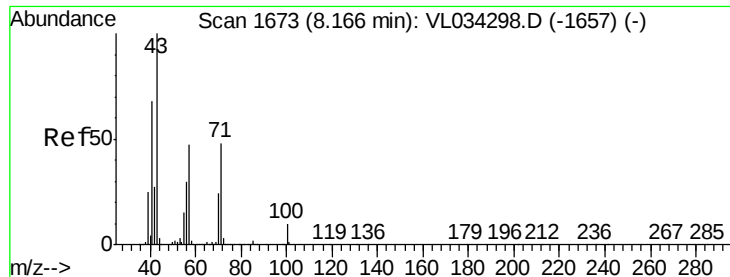
Tgt Ion: 41 Resp: 4254322

Ion Ratio Lower Upper

41 100

42 69.9 53.9 80.9

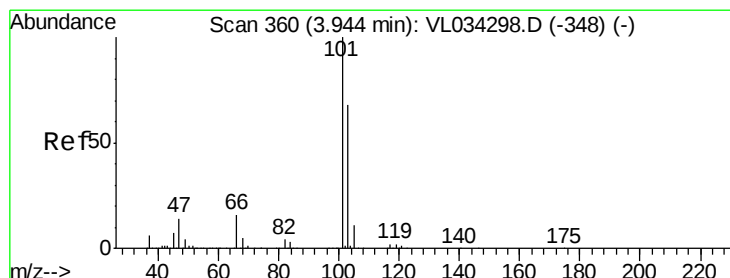
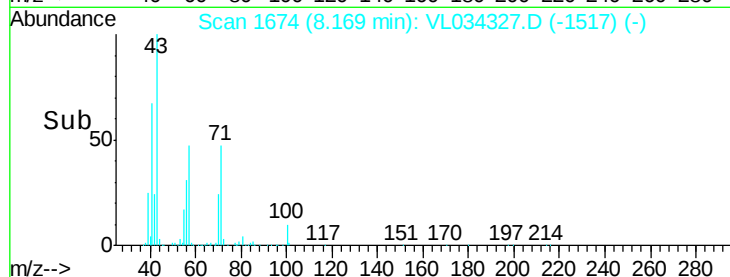
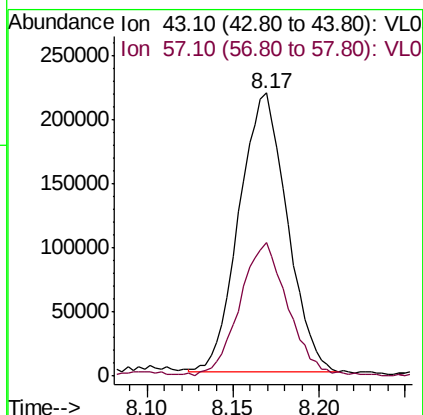
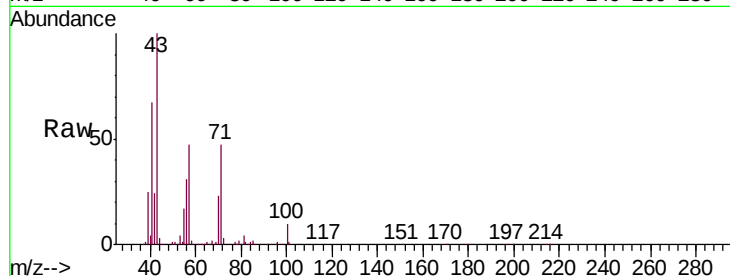




#10
 Heptane
 Concen: 3.266 ppbv
 RT: 8.17 min Scan# 1674
 Delta R.T. 0.00 min
 Lab File: VL034327.D
 Acq: 17 Oct 2019 22:02

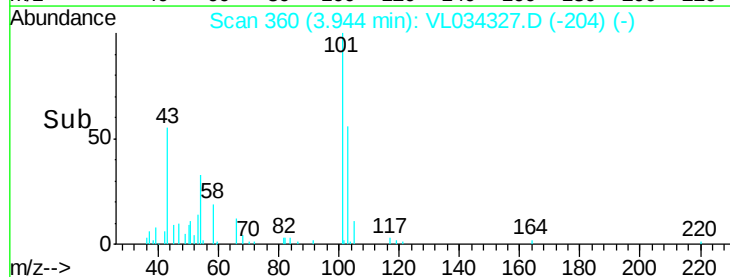
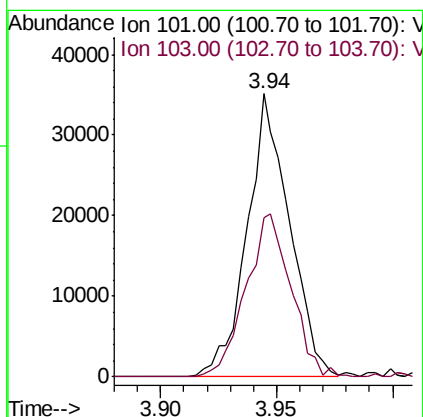
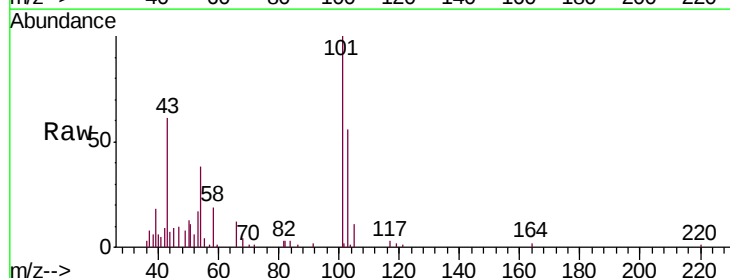
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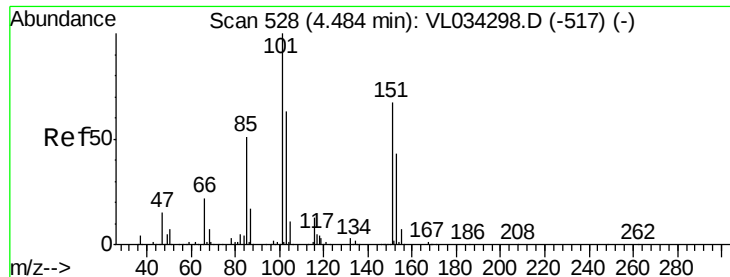
Tgt Ion: 43 Resp: 419286
 Ion Ratio Lower Upper
 43 100
 57 48.2 39.5 59.3



#11
 Trichlorofluoromethane
 Concen: 0.284 ppbv
 RT: 3.94 min Scan# 360
 Delta R.T. 0.00 min
 Lab File: VL034327.D
 Acq: 17 Oct 2019 22:02

Tgt Ion: 101 Resp: 44719
 Ion Ratio Lower Upper
 101 100
 103 56.1 54.5 81.7





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.061 ppbv

RT: 4.49 min Scan# 531

Delta R.T. 0.01 min

Lab File: VL034327.D

Acq: 17 Oct 2019 22:02

Instrument :

MSVOA_L

ClientSampleId :

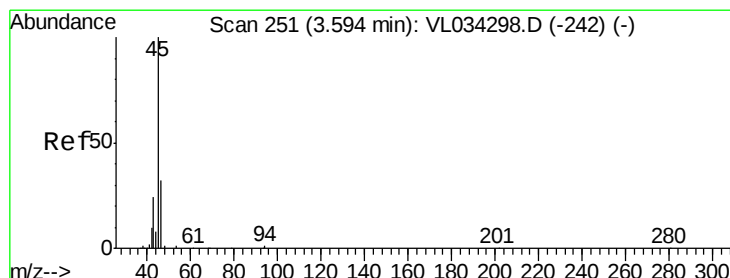
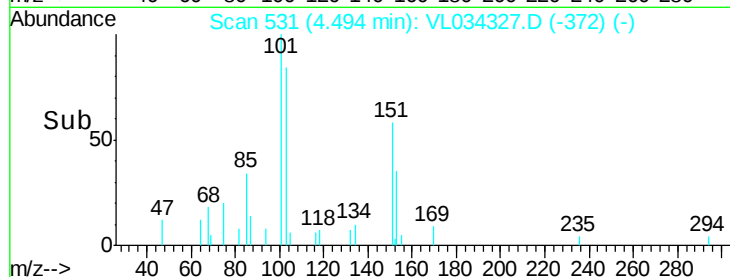
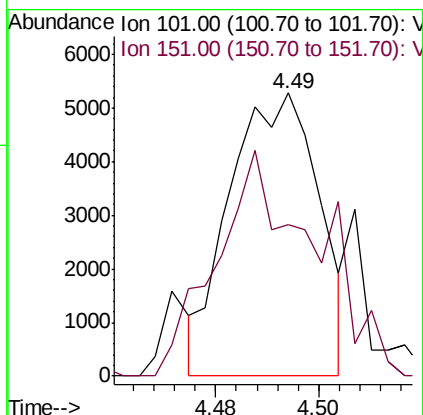
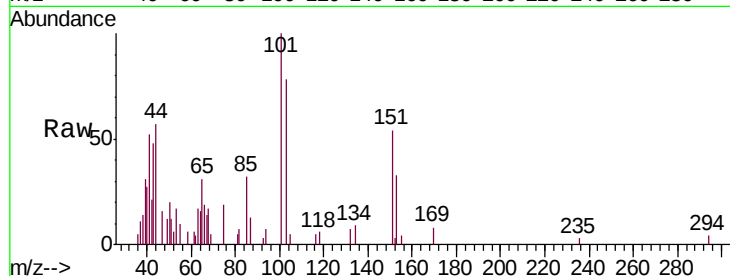
SV2

Tgt Ion:101 Resp: 6323

Ion Ratio Lower Upper

101 100

151 90.9 57.4 86.2#



#13

Ethanol

Concen: 6.747 ppbv

RT: 3.60 min Scan# 253

Delta R.T. 0.01 min

Lab File: VL034327.D

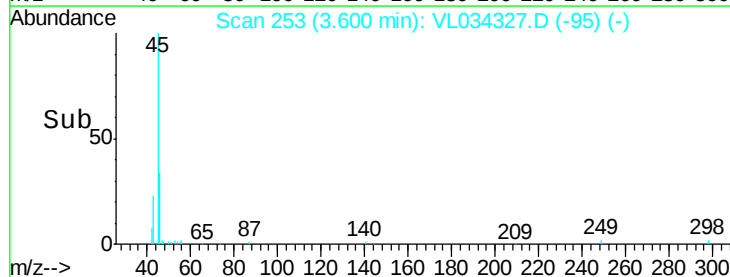
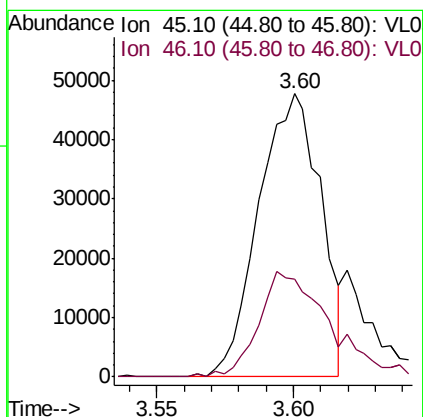
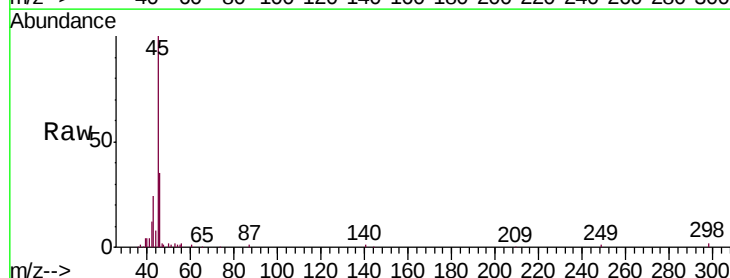
Acq: 17 Oct 2019 22:02

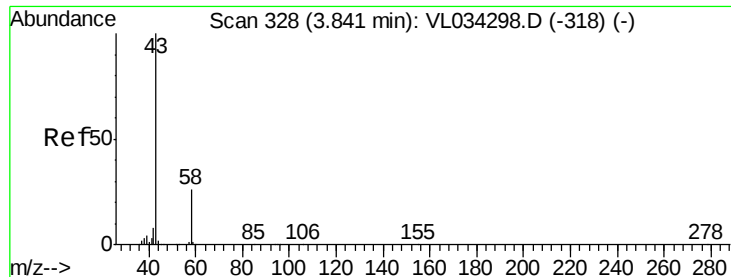
Tgt Ion: 45 Resp: 75566

Ion Ratio Lower Upper

45 100

46 44.5 15.8 63.2





#15

Acetone

Concen: 64.865 ppbv

RT: 3.84 min Scan# 328

Delta R.T. 0.00 min

Lab File: VL034327.D

Acq: 17 Oct 2019 22:02

Instrument :

MSVOA_L

ClientSampleId :

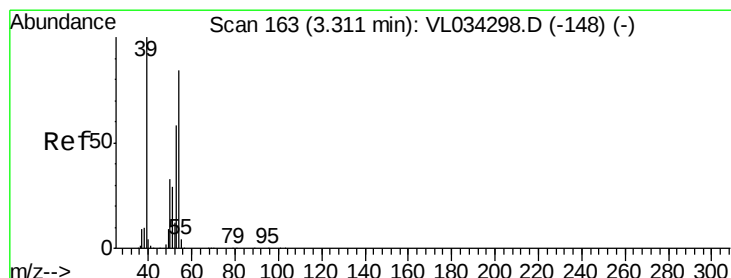
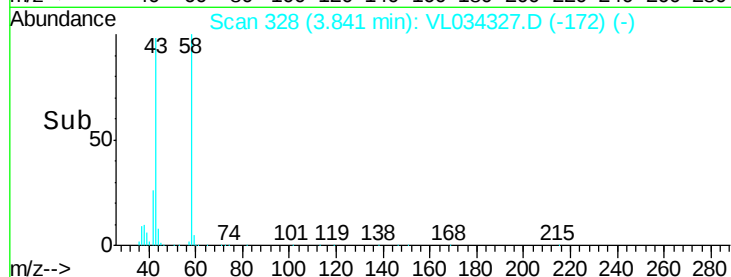
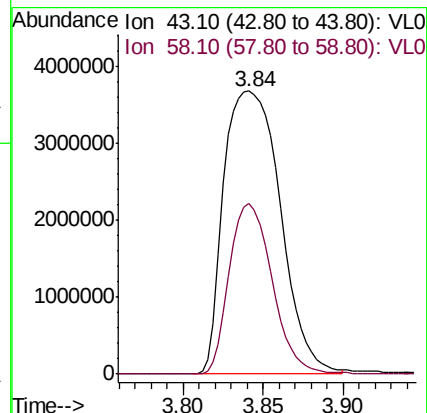
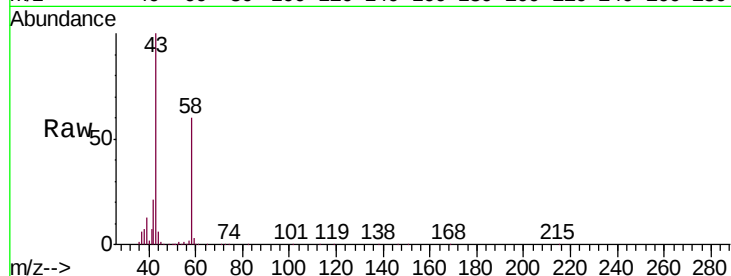
SV2

Tgt Ion: 43 Resp: 8932318

Ion Ratio Lower Upper

43 100

58 45.9 20.4 30.6#



#16

1,3-Butadiene

Concen: 52.077 ppbv

RT: 3.29 min Scan# 157

Delta R.T. -0.02 min

Lab File: VL034327.D

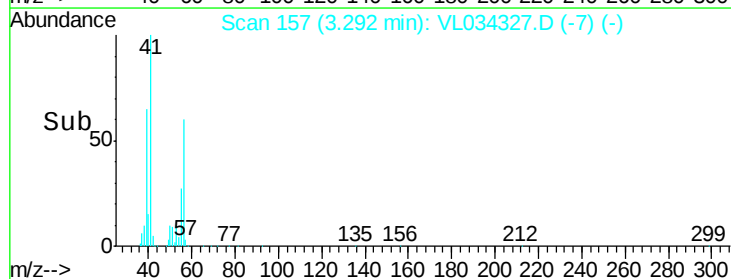
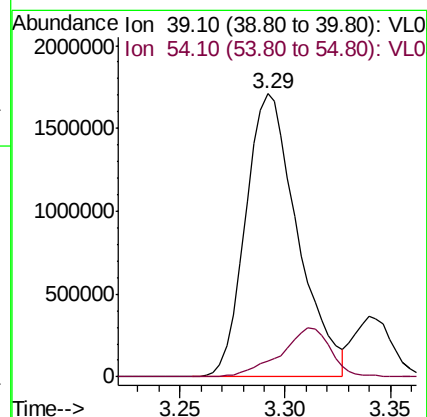
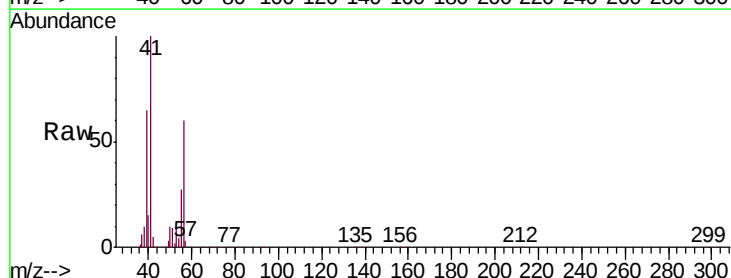
Acq: 17 Oct 2019 22:02

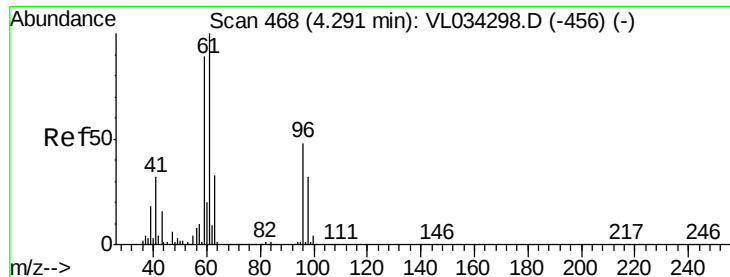
Tgt Ion: 39 Resp: 2913841

Ion Ratio Lower Upper

39 100

54 16.8 63.9 95.9#





#17

tert-Butyl alcohol

Concen: 1.902 ppbv

RT: 4.30 min Scan# 471

Delta R.T. 0.01 min

Lab File: VL034327.D

Acq: 17 Oct 2019 22:02

Instrument :

MSVOA_L

ClientSampleId :

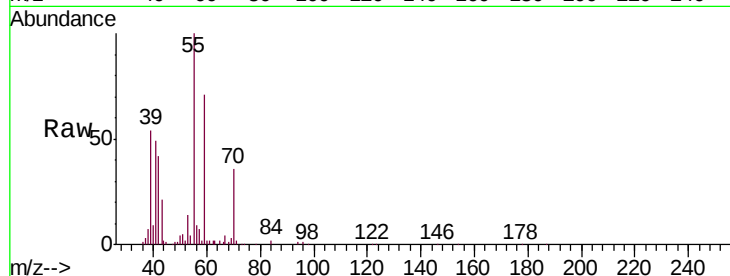
SV2

Tgt Ion: 59 Resp: 167192

Ion Ratio Lower Upper

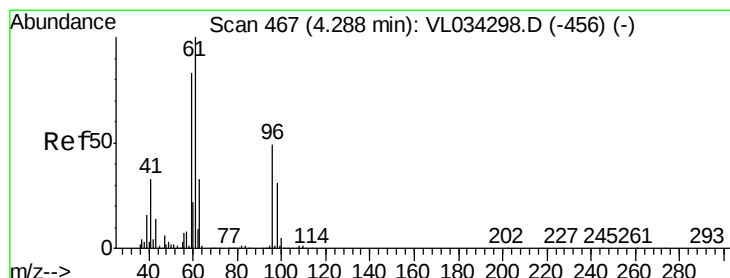
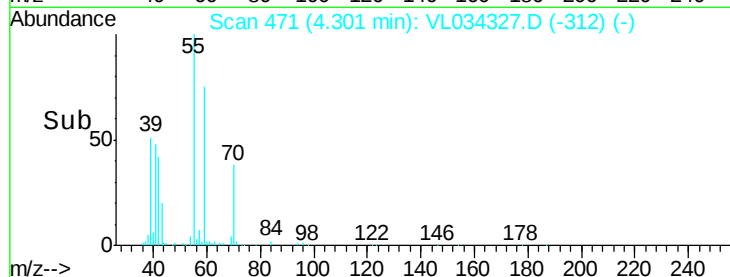
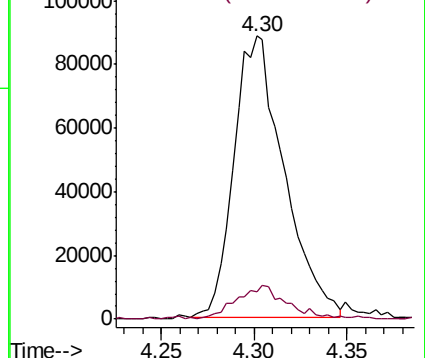
59 100

57 12.8 8.8 13.2



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#18

1,1-Dichloroethene

Concen: 0.066 ppbv

RT: 4.29 min Scan# 468

Delta R.T. 0.00 min

Lab File: VL034327.D

Acq: 17 Oct 2019 22:02

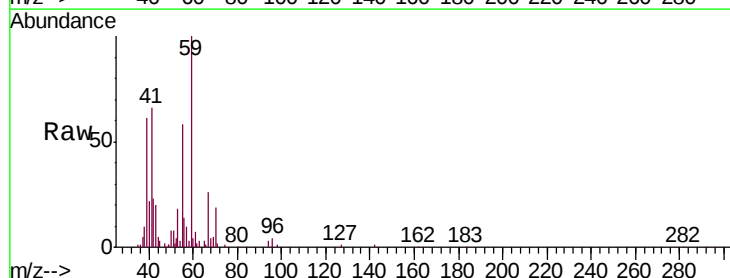
Tgt Ion: 96 Resp: 2989

Ion Ratio Lower Upper

96 100

61 117.7 164.5 246.7#

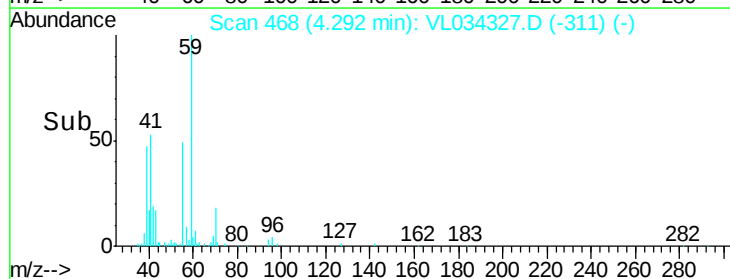
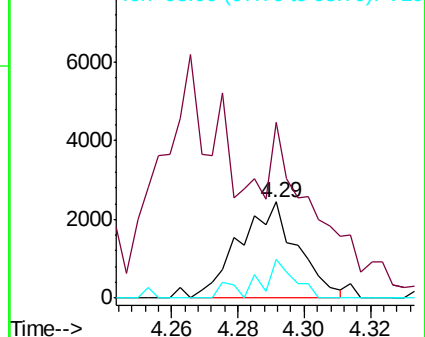
98 40.2 51.7 77.5#

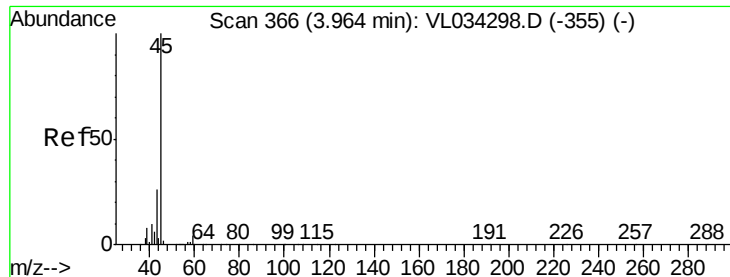


Abundance Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#19

Isopropyl Alcohol

Concen: 1.092 ppbv

RT: 3.97 min Scan# 368

Delta R.T. 0.01 min

Lab File: VL034327.D

Acq: 17 Oct 2019 22:02

Instrument :

MSVOA_L

ClientSampleId :

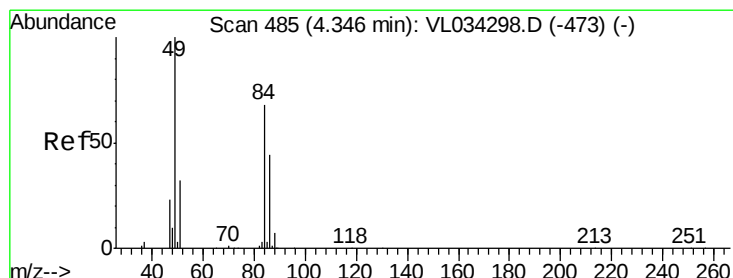
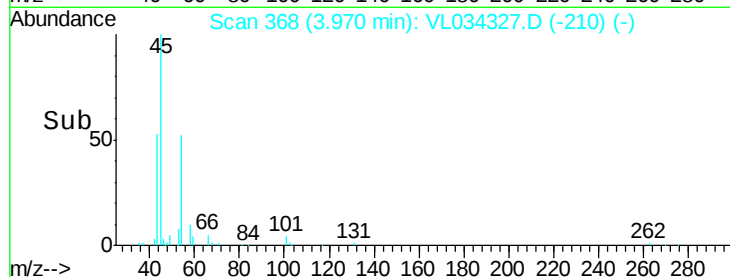
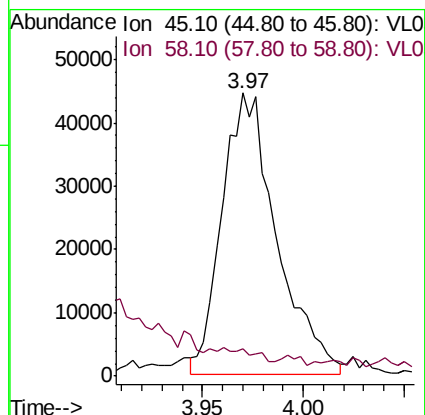
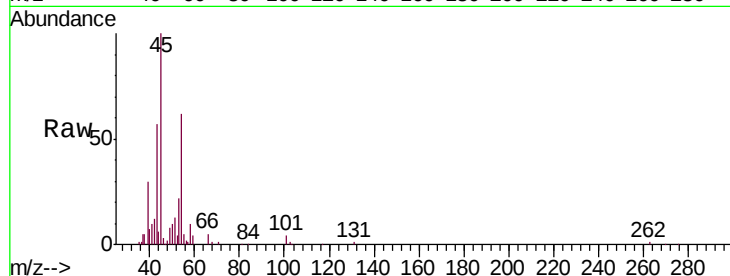
SV2

Tgt Ion: 45 Resp: 83920

Ion Ratio Lower Upper

45 100

58 0.0 1.4 2.2#



#20

Methylene Chloride

Concen: 0.725 ppbv

RT: 4.35 min Scan# 487

Delta R.T. 0.01 min

Lab File: VL034327.D

Acq: 17 Oct 2019 22:02

Tgt Ion: 84 Resp: 36112

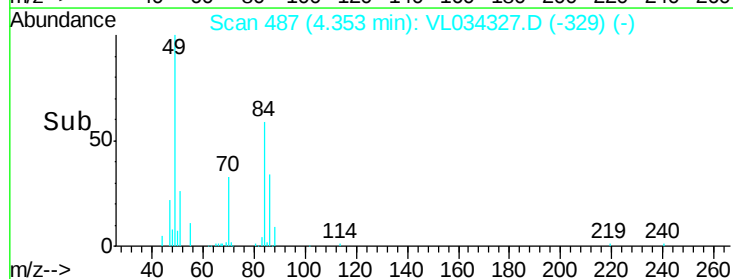
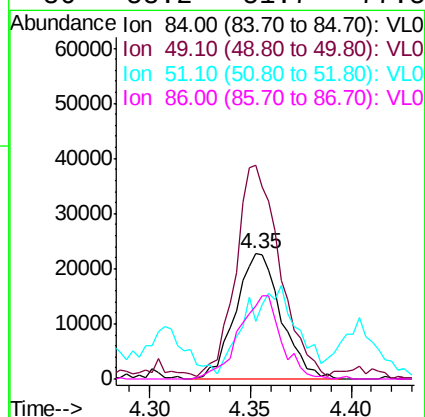
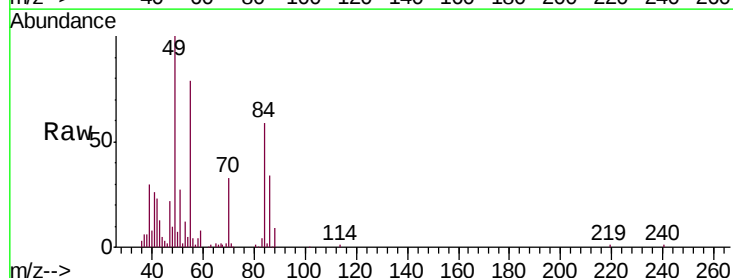
Ion Ratio Lower Upper

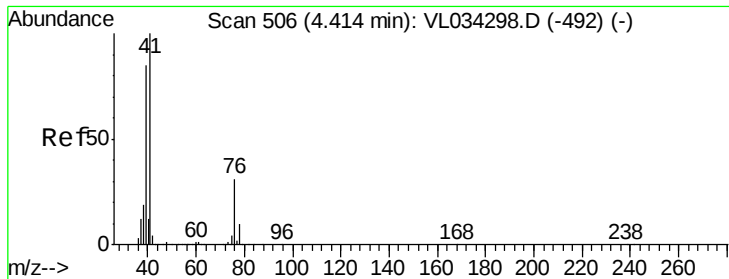
84 100

49 167.3 118.5 177.7

51 23.4 38.8 58.2#

86 58.2 51.7 77.5

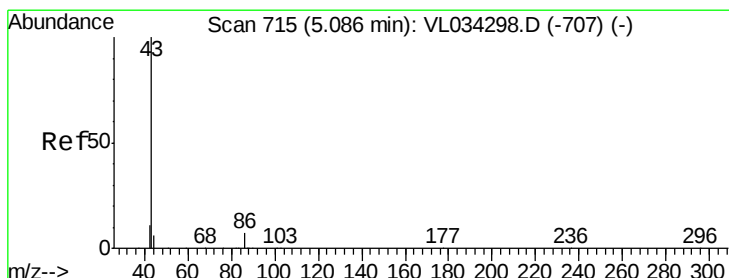
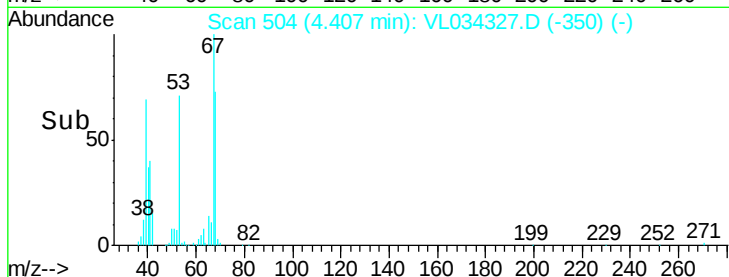
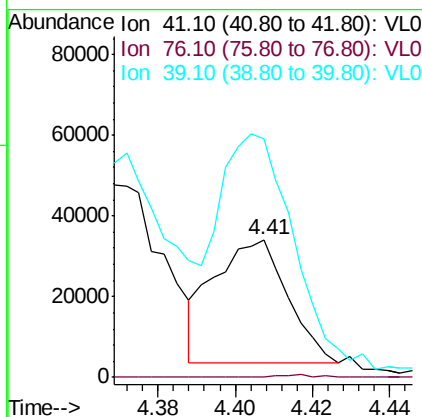
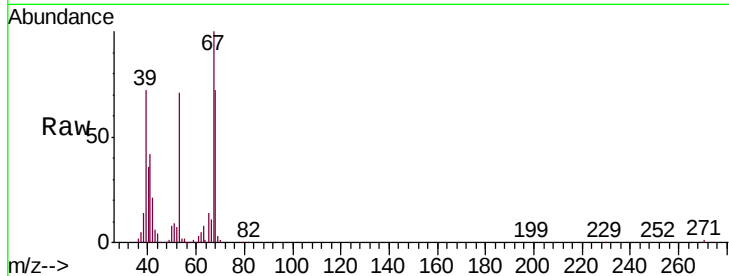




#21
 Allyl Chloride
 Concen: 0.530 ppbv
 RT: 4.41 min Scan# 504
 Delta R.T. -0.01 min
 Lab File: VL034327.D
 Acq: 17 Oct 2019 22:02

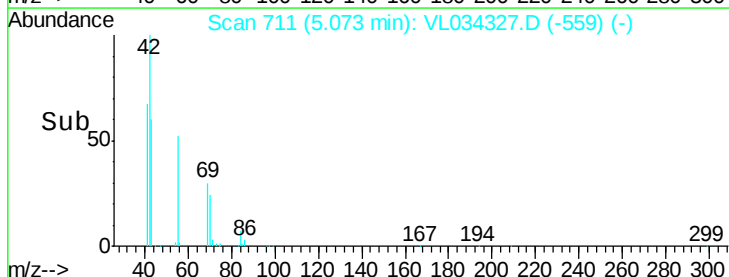
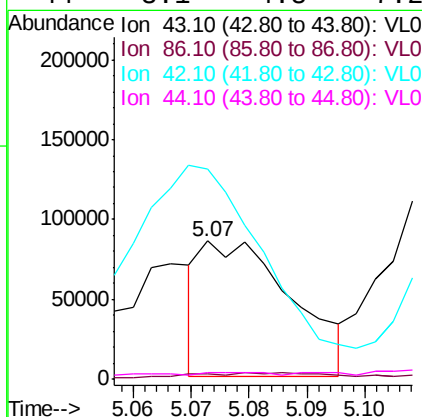
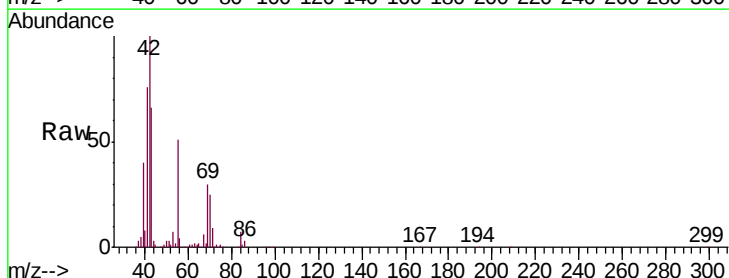
Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

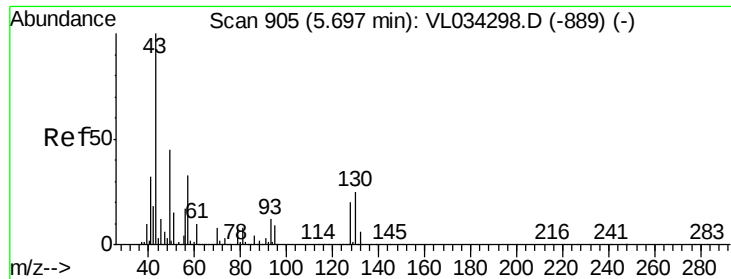
Tgt Ion: 41 Resp: 40330
 Ion Ratio Lower Upper
 41 100
 76 0.0 22.8 34.2#
 39 188.7 66.0 99.0#



#23
 Vinyl Acetate
 Concen: 0.537 ppbv
 RT: 5.07 min Scan# 711
 Delta R.T. -0.01 min
 Lab File: VL034327.D
 Acq: 17 Oct 2019 22:02

Tgt Ion: 43 Resp: 92382
 Ion Ratio Lower Upper
 43 100
 86 2.5 5.0 7.4#
 42 211.4 8.6 13.0#
 44 3.1 4.8 7.2#

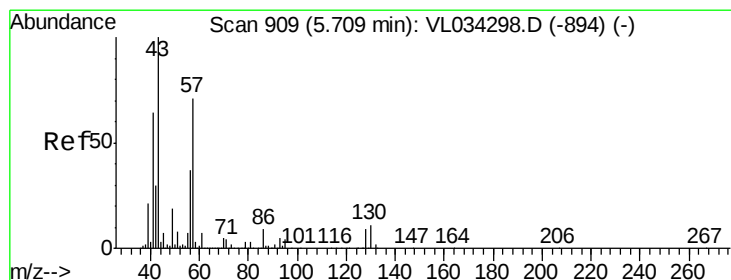
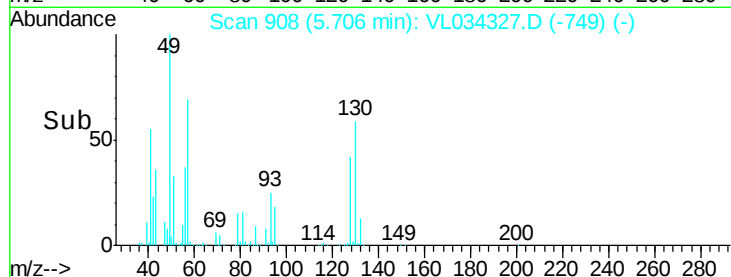
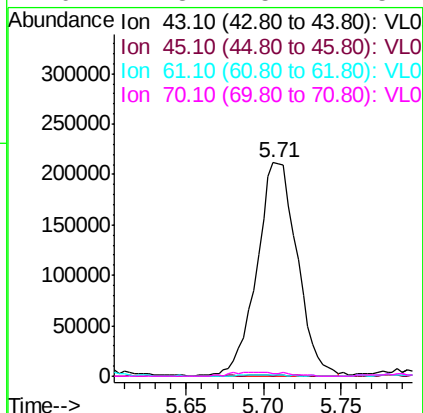
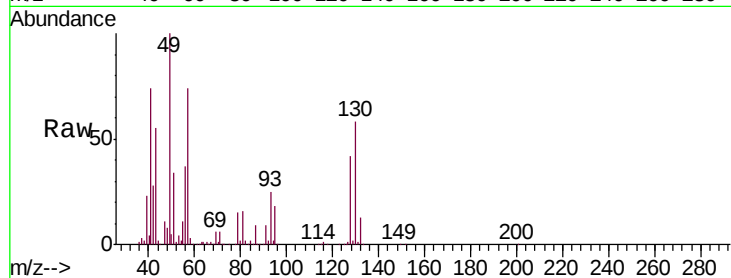




#25
Ethyl Acetate
Concen: 1.650 ppbv
RT: 5.71 min Scan# 908
Delta R.T. 0.01 min
Lab File: VL034327.D
Acq: 17 Oct 2019 22:02

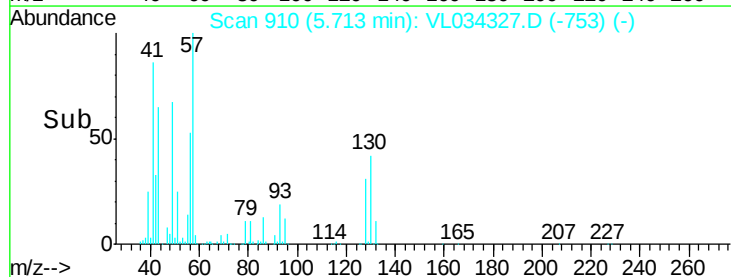
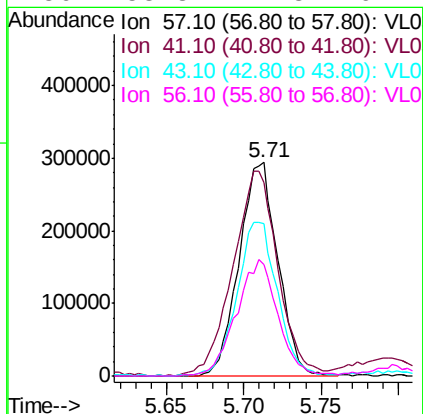
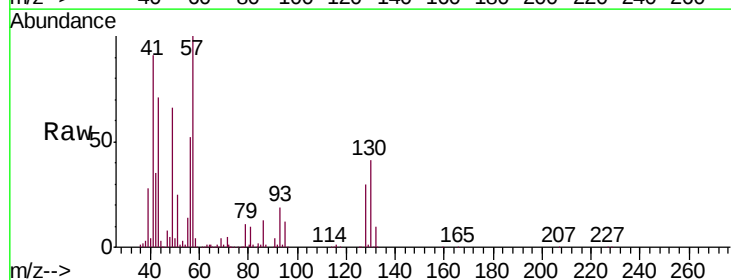
Instrument :
MSVOA_L
ClientSampleId :
SV2

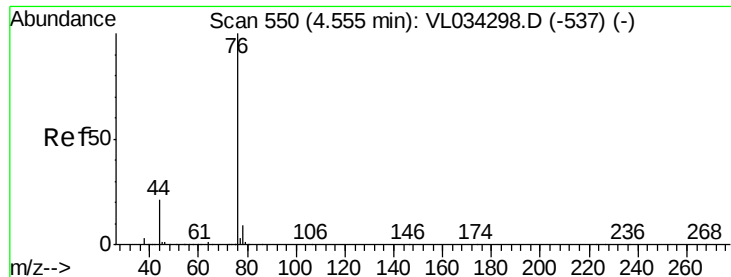
Tgt Ion:	43	Resp:	383699
Ion	Ratio	Lower	Upper
43	100		
45	0.8	8.3	12.5#
61	0.0	7.7	11.5#
70	2.8	5.4	8.2#



#26
Hexane
Concen: 5.173 ppbv
RT: 5.71 min Scan# 910
Delta R.T. 0.00 min
Lab File: VL034327.D
Acq: 17 Oct 2019 22:02

Tgt Ion:	57	Resp:	512605
Ion	Ratio	Lower	Upper
57	100		
41	110.7	76.5	114.7
43	74.8	188.5	282.7#
56	58.3	42.8	64.2





#27

Carbon Disulfide

Concen: 7.079 ppbv

RT: 4.56 min Scan# 550

Delta R.T. 0.00 min

Lab File: VL034327.D

Acq: 17 Oct 2019 22:02

Instrument :

MSVOA_L

ClientSampleId :

SV2

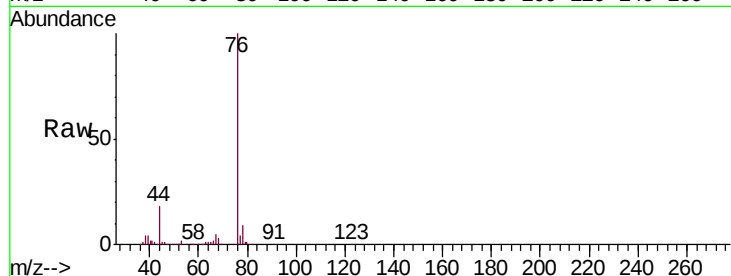
Tgt Ion: 76 Resp: 728289

Ion Ratio Lower Upper

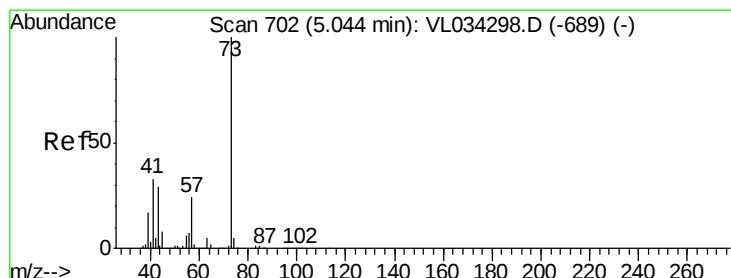
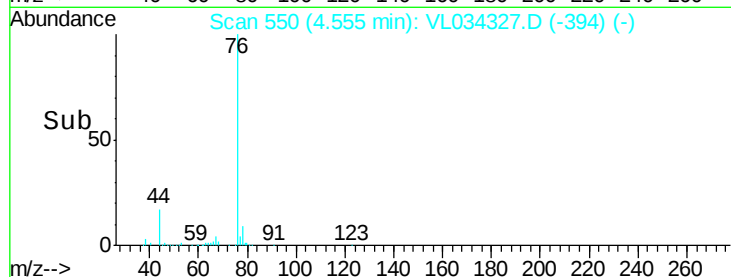
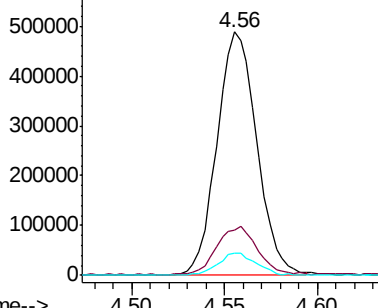
76 100

44 20.5 17.3 25.9

78 9.0 7.8 11.6



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: 0.031 ppbv

RT: 5.05 min Scan# 703

Delta R.T. 0.00 min

Lab File: VL034327.D

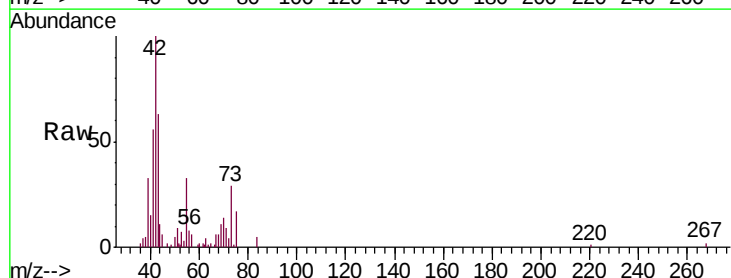
Acq: 17 Oct 2019 22:02

Tgt Ion: 73 Resp: 4644

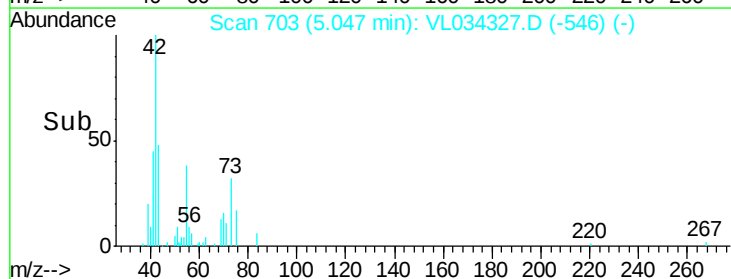
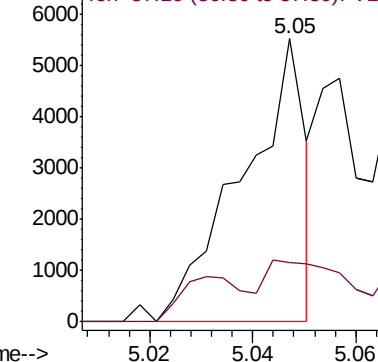
Ion Ratio Lower Upper

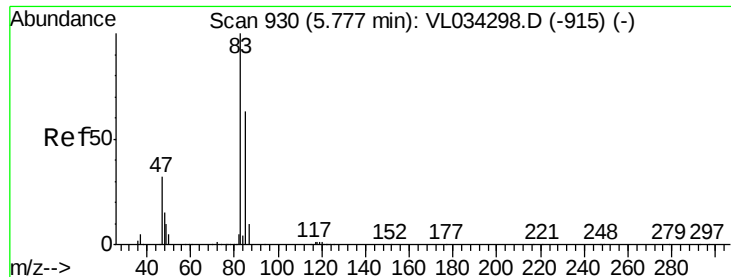
73 100

57 0.0 19.2 28.8#



Abundance Ion 73.10 (72.80 to 73.80): VL0
Ion 57.10 (56.80 to 57.80): VL0

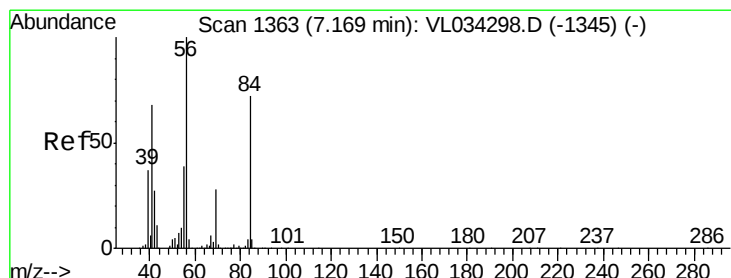
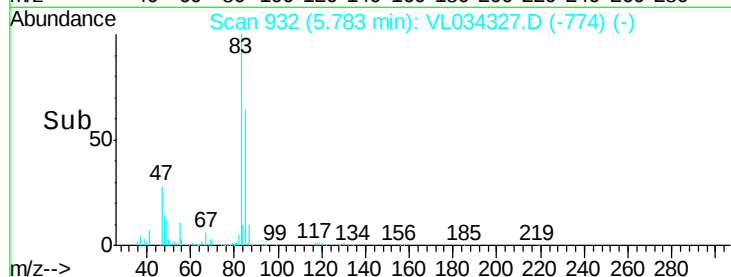
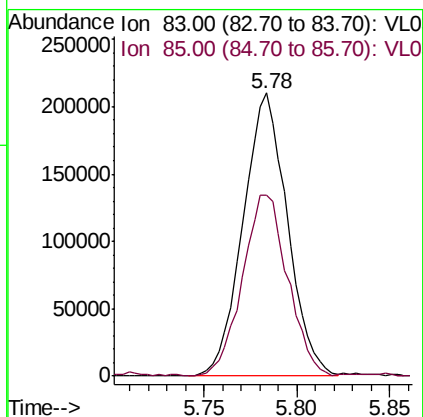
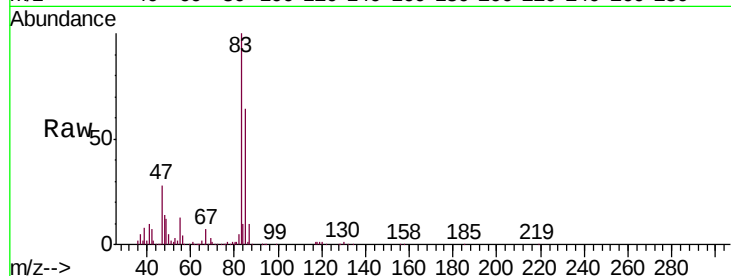




#29
Chloroform
Concen: 2.227 ppbv
RT: 5.78 min Scan# 932
Delta R.T. 0.01 min
Lab File: VL034327.D
Acq: 17 Oct 2019 22:02

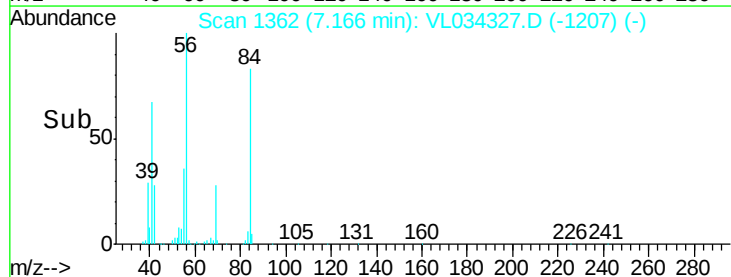
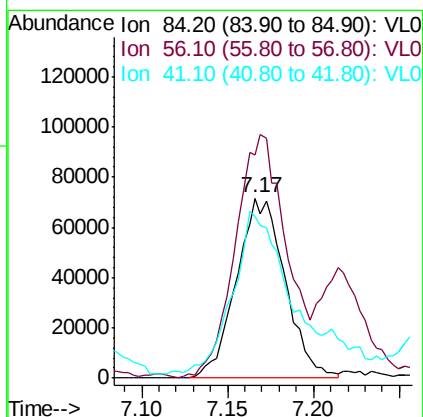
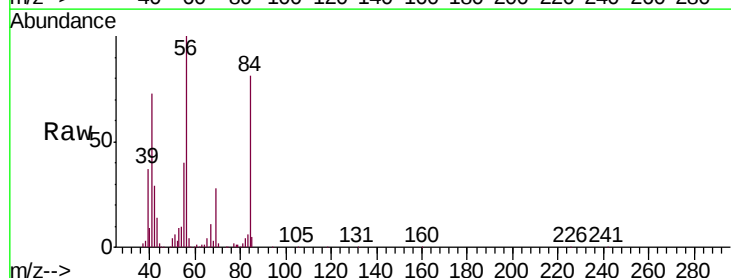
Instrument :
MSVOA_L
ClientSampleId :
SV2

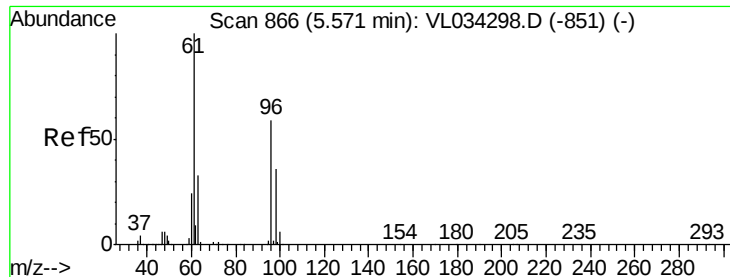
Tgt Ion: 83 Resp: 349077
Ion Ratio Lower Upper
83 100
85 63.7 50.5 75.7



#30
Cyclohexane
Concen: 1.911 ppbv
RT: 7.17 min Scan# 1362
Delta R.T. -0.00 min
Lab File: VL034327.D
Acq: 17 Oct 2019 22:02

Tgt Ion: 84 Resp: 139276
Ion Ratio Lower Upper
84 100
56 143.3 119.4 179.0
41 121.2 78.7 118.1#





#31

cis-1,2-Dichloroethene

Concen: 1.099 ppbv

RT: 5.58 min Scan# 868

Delta R.T. 0.01 min

Lab File: VL034327.D

Acq: 17 Oct 2019 22:02

Instrument :

MSVOA_L

ClientSampleId :

SV2

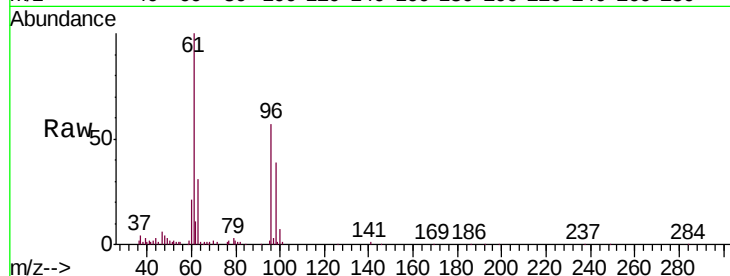
Tgt Ion: 61 Resp: 110508

Ion Ratio Lower Upper

61 100

96 56.8 47.5 71.3

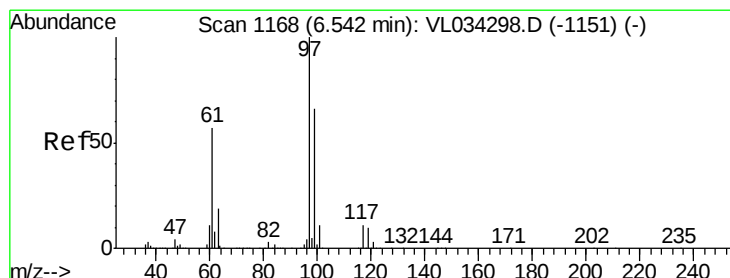
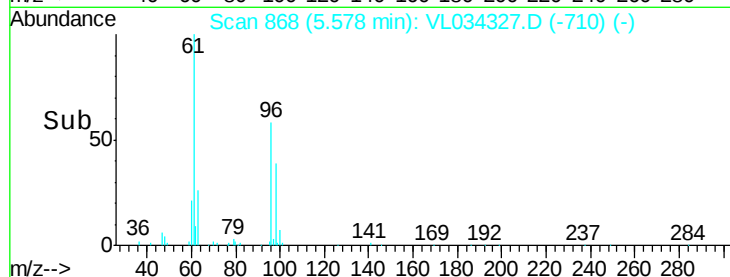
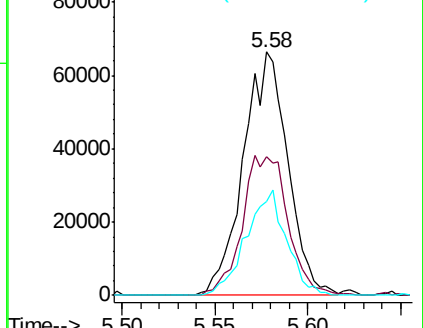
98 38.7 28.8 43.2



Abundance Ion 61.10 (60.80 to 61.80): VL0

Ion 96.00 (95.70 to 96.70): VL0

Ion 98.00 (97.70 to 98.70): VL0



#32

1,1,1-Trichloroethane

Concen: 0.050 ppbv

RT: 6.55 min Scan# 1169

Delta R.T. 0.00 min

Lab File: VL034327.D

Acq: 17 Oct 2019 22:02

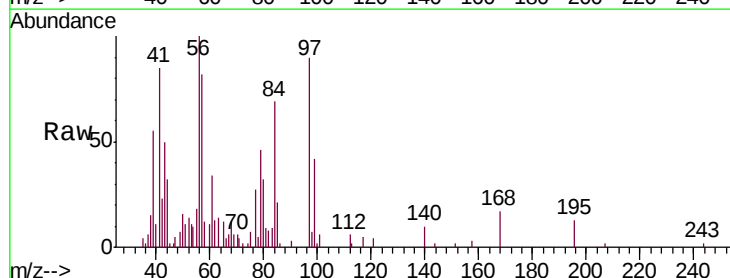
Tgt Ion: 97 Resp: 7547

Ion Ratio Lower Upper

97 100

99 114.7 52.6 78.8#

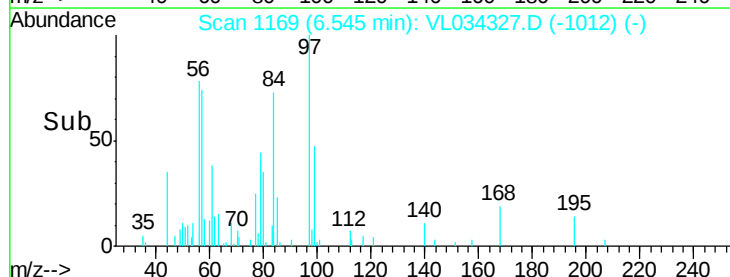
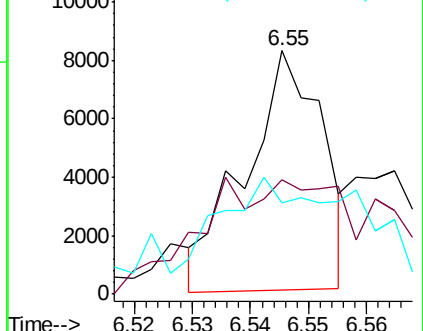
61 134.6 44.5 66.7#

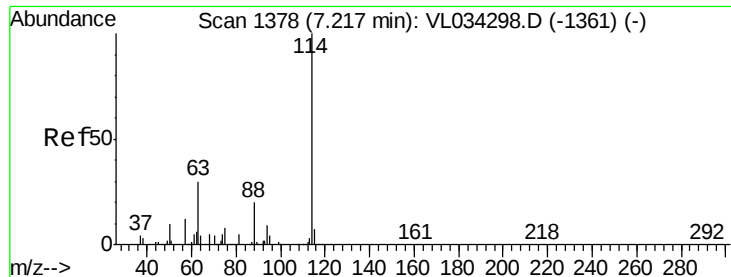


Abundance Ion 97.00 (96.70 to 97.70): VL0

Ion 99.00 (98.70 to 99.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

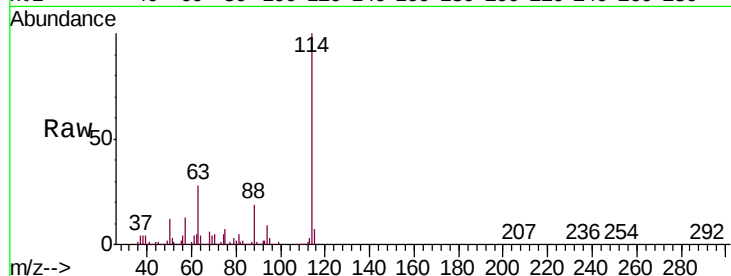




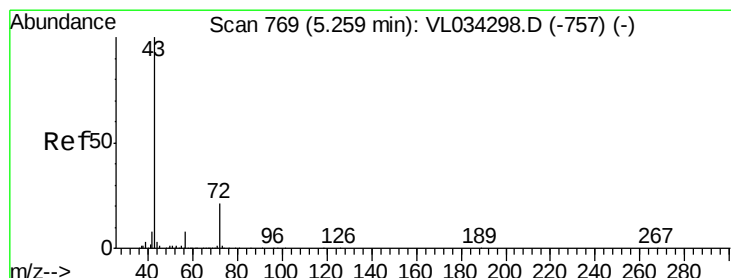
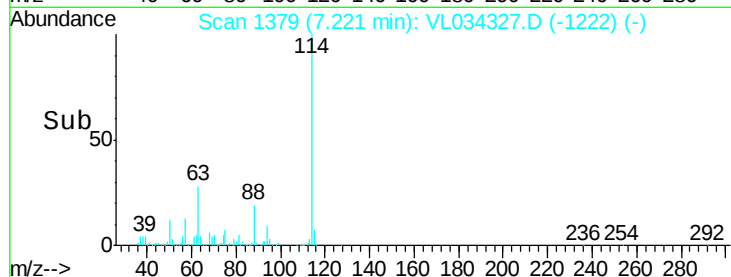
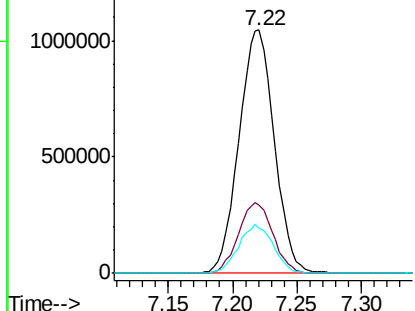
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.22 min Scan# 1379
 Delta R.T. 0.00 min
 Lab File: VL034327.D
 Acq: 17 Oct 2019 22:02

Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

Tgt Ion:114 Resp: 1994680
 Ion Ratio Lower Upper
 114 100
 63 28.8 25.2 37.8
 88 19.8 16.0 24.0

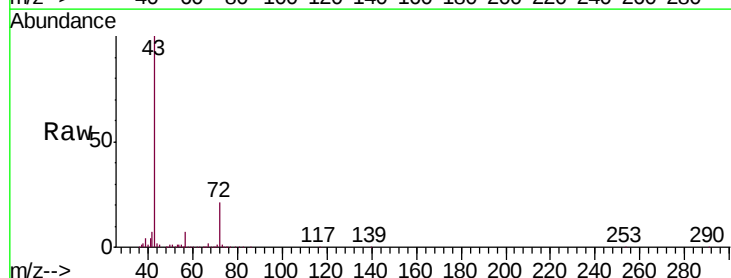


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

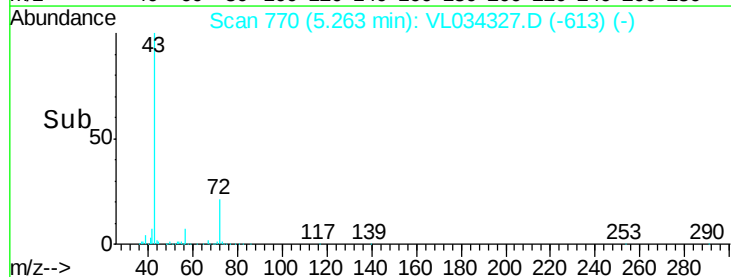
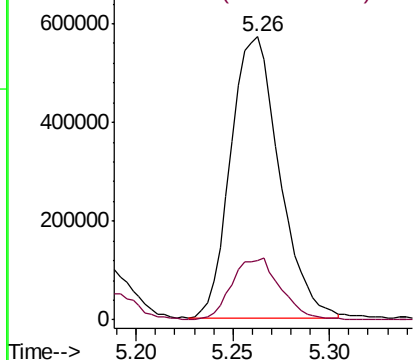


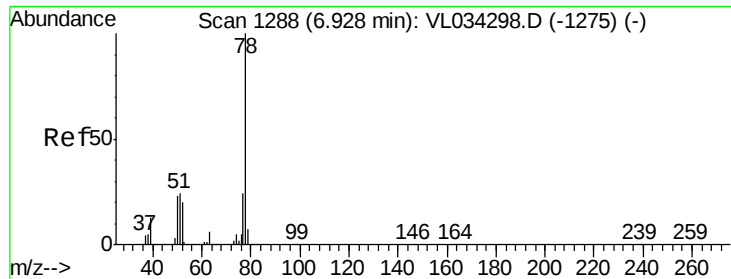
#34
 2-Butanone
 Concen: 6.165 ppbv
 RT: 5.26 min Scan# 770
 Delta R.T. 0.00 min
 Lab File: VL034327.D
 Acq: 17 Oct 2019 22:02

Tgt Ion: 43 Resp: 1005171
 Ion Ratio Lower Upper
 43 100
 72 21.8 16.3 24.5



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





#36

Benzene

Concen: 5.243 ppbv

RT: 6.93 min Scan# 1289

Delta R.T. 0.00 min

Lab File: VL034327.D

Acq: 17 Oct 2019 22:02

Instrument :

MSVOA_L

ClientSampleId :

SV2

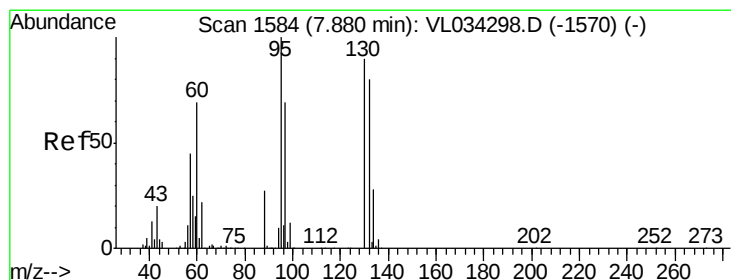
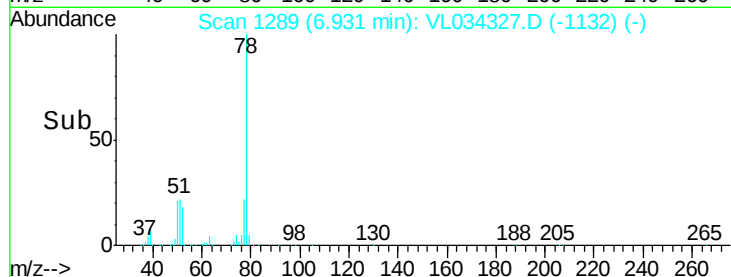
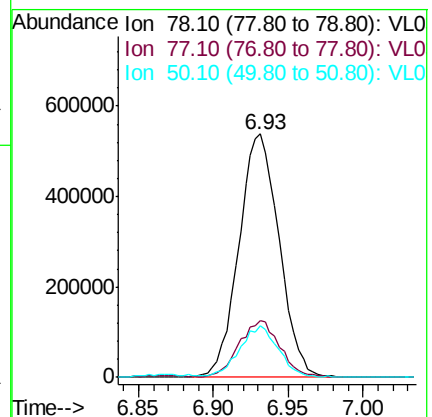
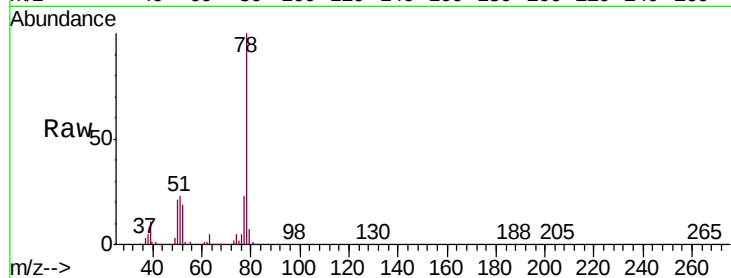
Tgt Ion: 78 Resp: 1003486

Ion Ratio Lower Upper

78 100

77 23.3 19.0 28.4

50 21.0 18.6 27.8



#38

Trichloroethene

Concen: 3.645 ppbv

RT: 7.88 min Scan# 1585

Delta R.T. 0.00 min

Lab File: VL034327.D

Acq: 17 Oct 2019 22:02

Tgt Ion: 130 Resp: 279920

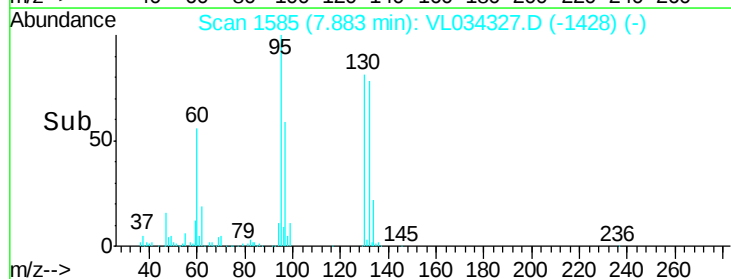
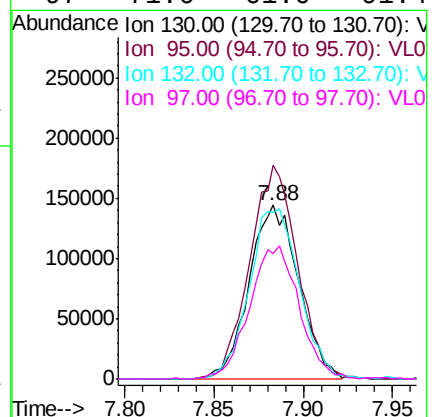
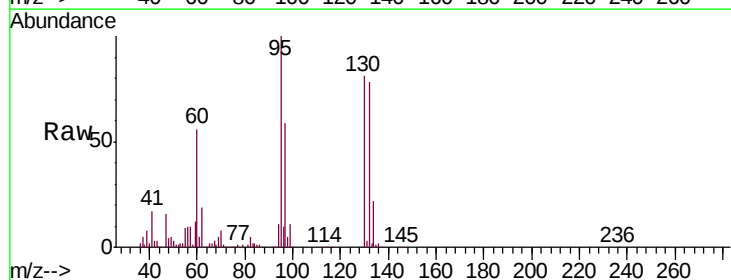
Ion Ratio Lower Upper

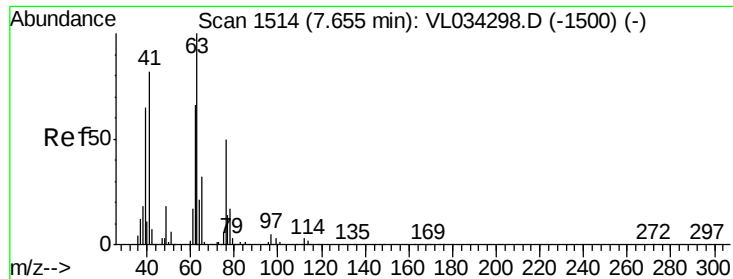
130 100

95 122.6 88.6 132.8

132 95.7 71.2 106.8

97 71.6 61.0 91.4

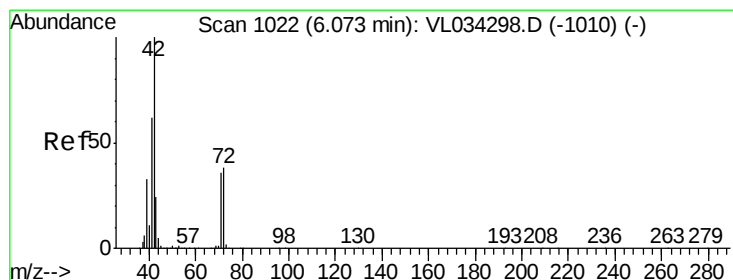
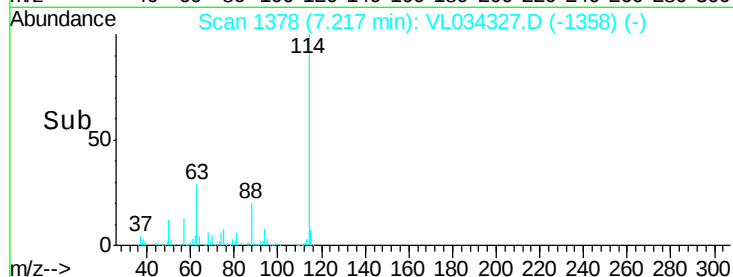
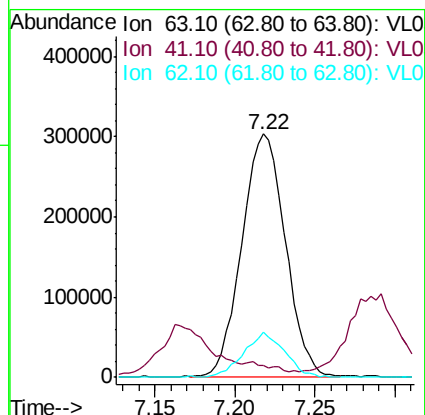
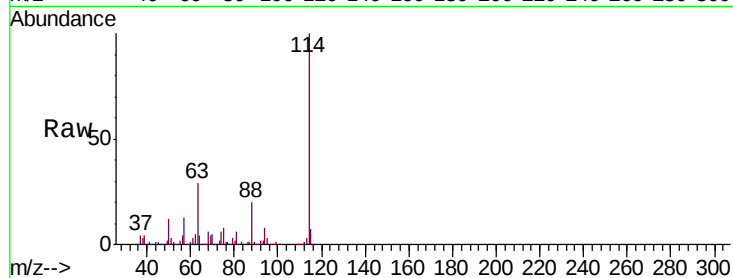




#39
 1,2-Dichloropropane
 Concen: 6.823 ppbv
 RT: 7.22 min Scan# 1378
 Delta R.T. -0.44 min
 Lab File: VL034327.D
 Acq: 17 Oct 2019 22:02

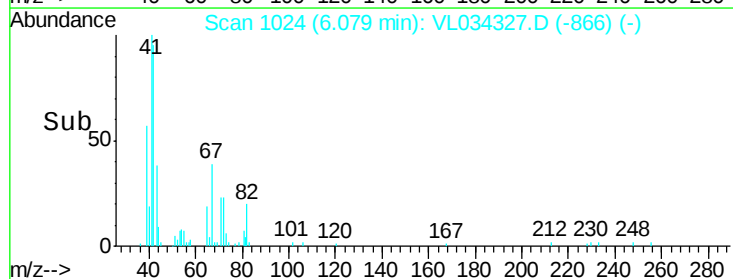
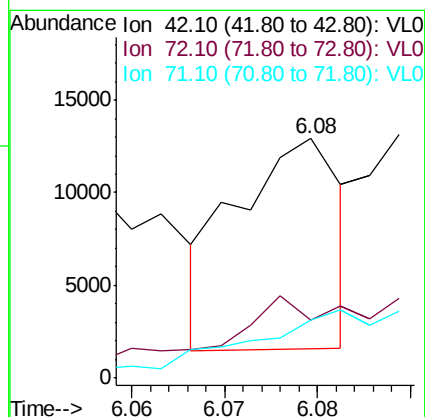
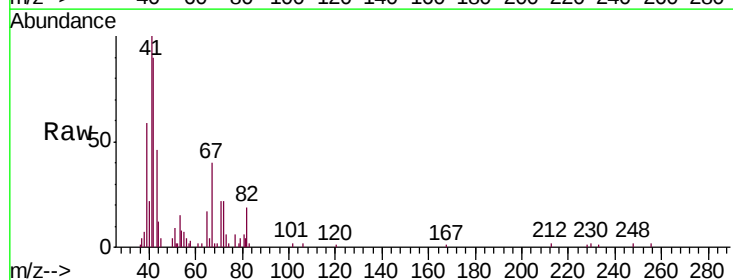
Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

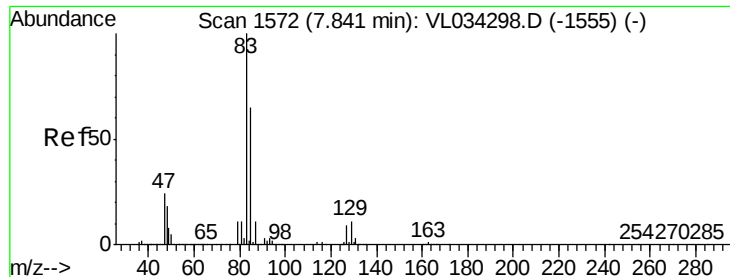
Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.0	65.6	98.4#
62	18.2	53.0	79.6#



#41
 Tetrahydrofuran
 Concen: 0.098 ppbv
 RT: 6.08 min Scan# 1024
 Delta R.T. 0.01 min
 Lab File: VL034327.D
 Acq: 17 Oct 2019 22:02

Tgt Ion	Ratio	Lower	Upper
42	100		
72	113.8	28.0	42.0#
71	0.0	27.3	40.9#





#42

Bromodichloromethane

Concen: 0.039 ppbv

RT: 7.85 min Scan# 1574

Delta R.T. 0.01 min

Lab File: VL034327.D

Acq: 17 Oct 2019 22:02

Instrument :

MSVOA_L

ClientSampleId :

SV2

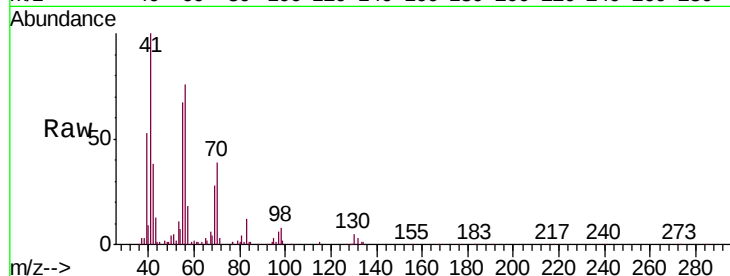
Tgt Ion: 83 Resp: 6769

Ion Ratio Lower Upper

83 100

85 1.8 51.8 77.6#

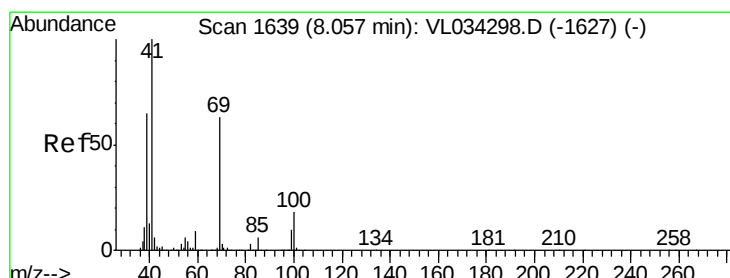
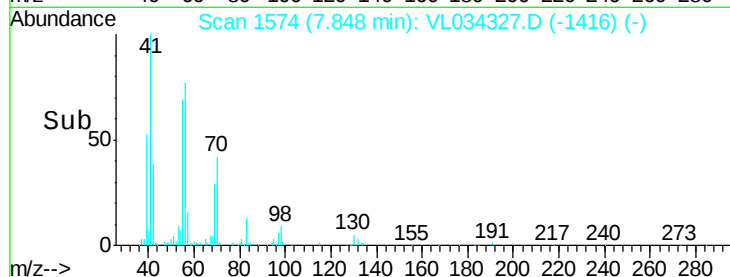
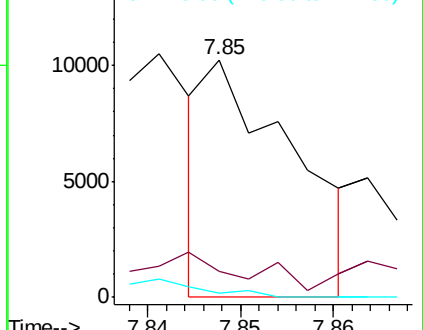
127 3.6 7.0 10.6#



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

Ion 126.90 (126.60 to 127.60): VL0



#43

Methyl Methacrylate

Concen: 0.126 ppbv

RT: 8.06 min Scan# 1641

Delta R.T. 0.01 min

Lab File: VL034327.D

Acq: 17 Oct 2019 22:02

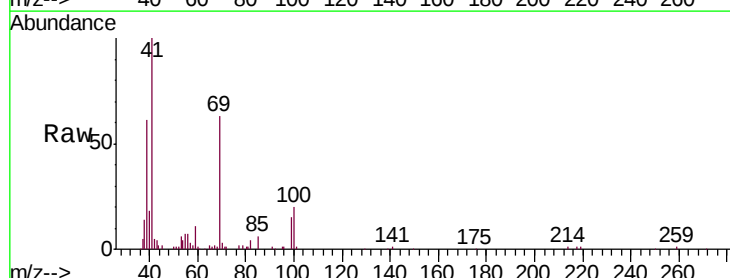
Tgt Ion: 69 Resp: 10010

Ion Ratio Lower Upper

69 100

41 1064.1 132.1 198.1#

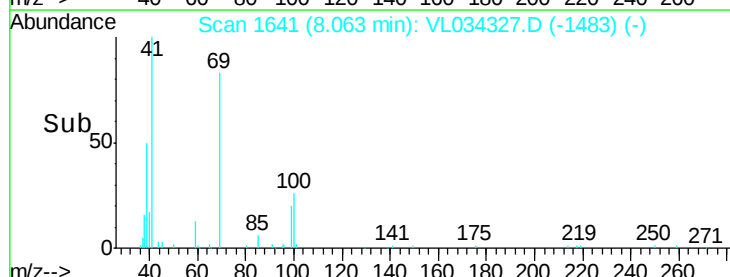
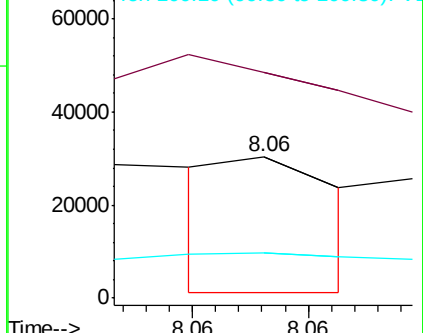
100 224.9 23.2 34.8#

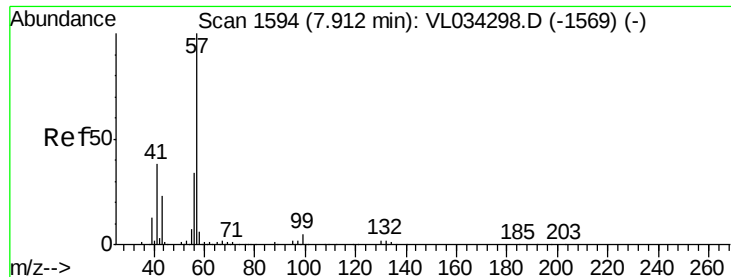


Abundance Ion 69.10 (68.80 to 69.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 100.10 (99.80 to 100.80): VL0





#44

2,2,4-Trimethylpentane

Concen: 0.727 ppbv

RT: 7.92 min Scan# 1595

Delta R.T. 0.00 min

Lab File: VL034327.D

Acq: 17 Oct 2019 22:02

Instrument :

MSVOA_L

ClientSampleId :

SV2

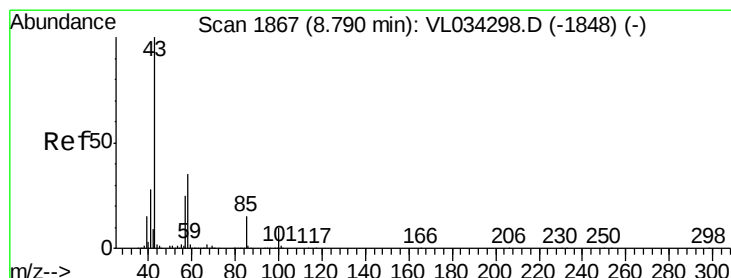
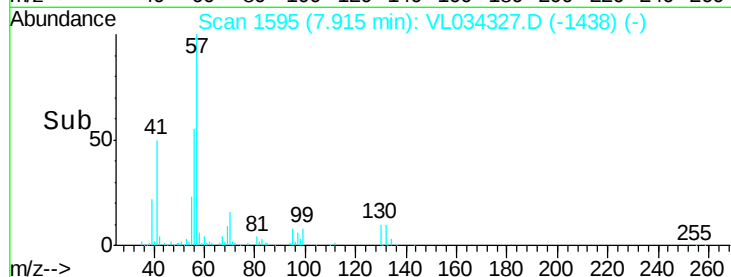
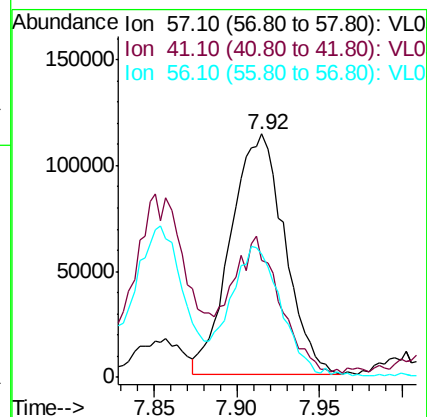
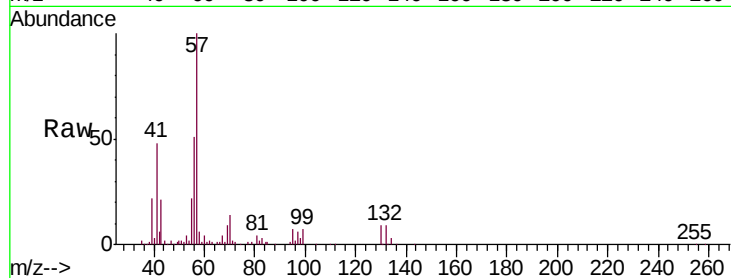
Tgt Ion: 57 Resp: 257399

Ion Ratio Lower Upper

57 100

41 57.5 29.3 43.9#

56 52.0 25.3 37.9#



#50

4-Methyl-2-Pentanone

Concen: 0.223 ppbv

RT: 8.79 min Scan# 1868

Delta R.T. 0.00 min

Lab File: VL034327.D

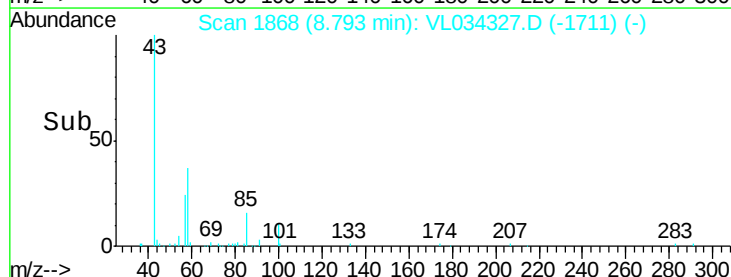
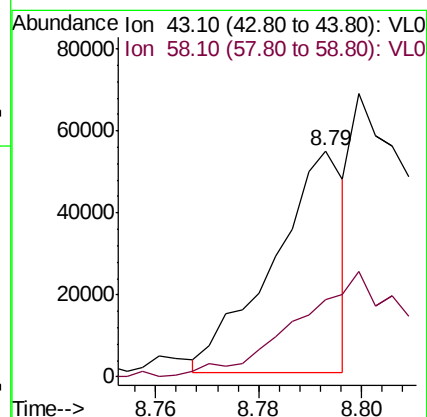
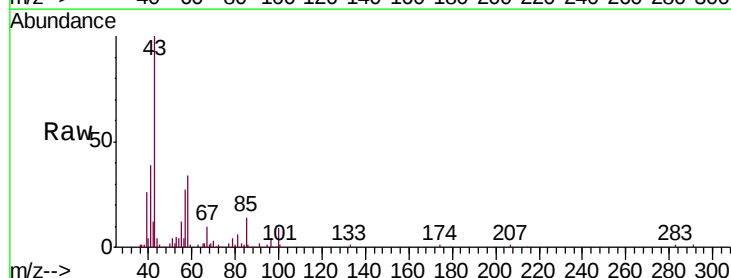
Acq: 17 Oct 2019 22:02

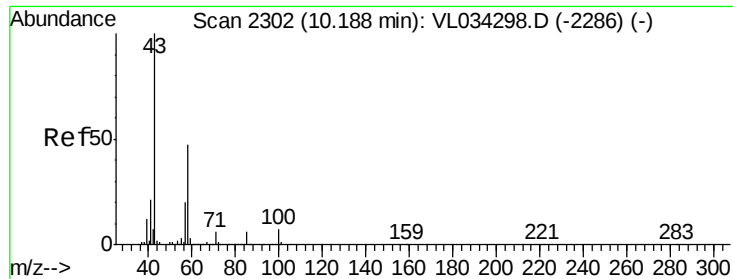
Tgt Ion: 43 Resp: 52025

Ion Ratio Lower Upper

43 100

58 0.0 27.6 41.4#

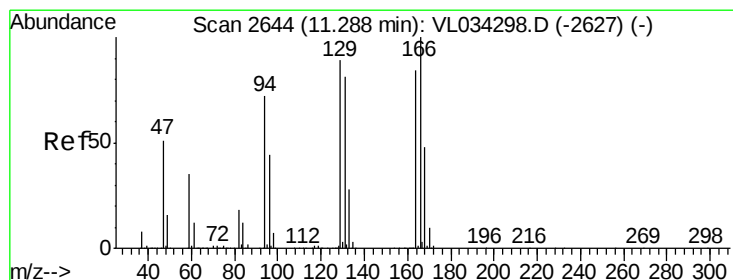
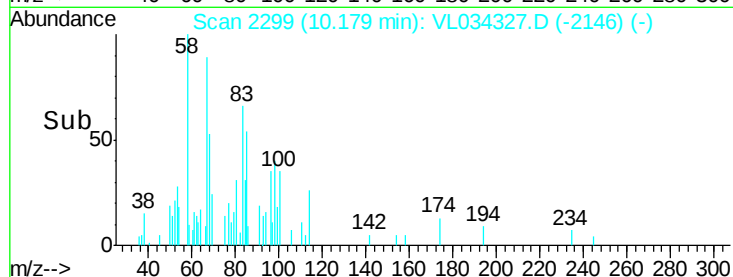
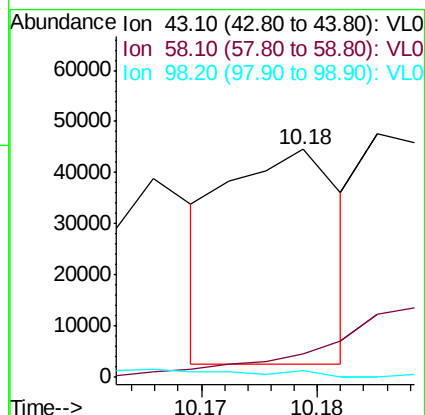
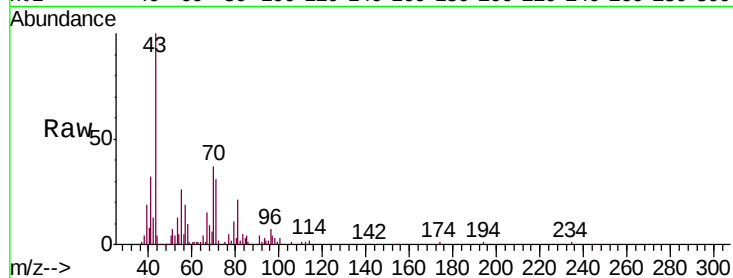




#51
2-Hexanone
Concen: 0.150 ppbv
RT: 10.18 min Scan# 2299
Delta R.T. -0.01 min
Lab File: VL034327.D
Acq: 17 Oct 2019 22:02

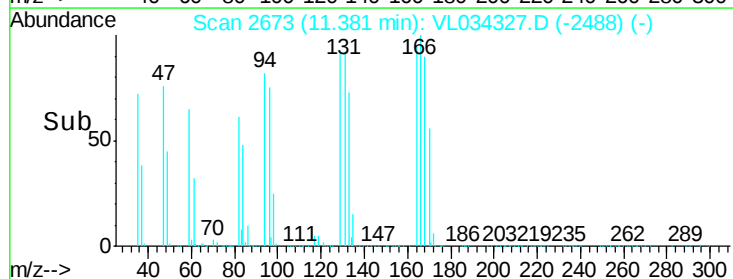
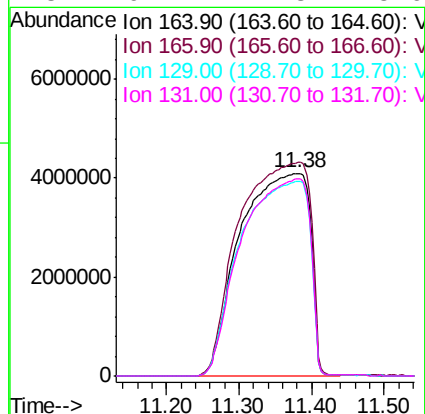
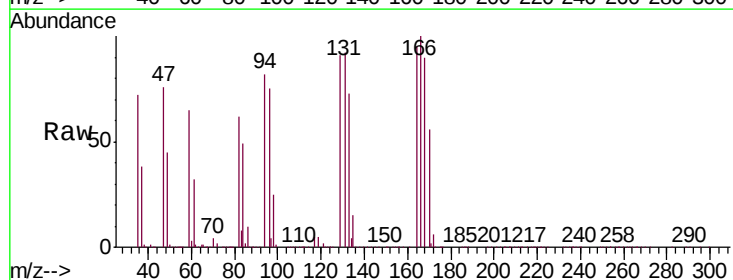
Instrument :
MSVOA_L
ClientSampled :
SV2

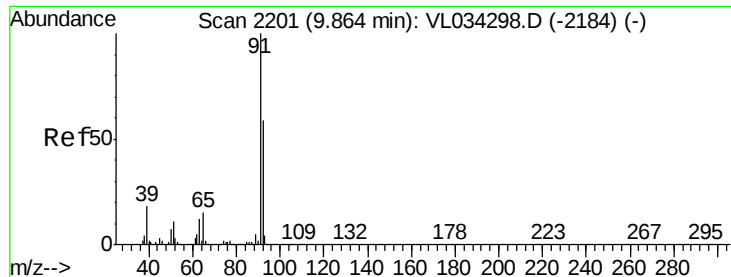
Tgt Ion: 43 Resp: 28775
Ion Ratio Lower Upper
43 100
58 0.0 37.0 55.6#
98 0.0 0.2 0.2#



#52
Tetrachloroethene
Concen: 362.198 ppbv
RT: 11.38 min Scan# 2673
Delta R.T. 0.09 min
Lab File: VL034327.D
Acq: 17 Oct 2019 22:02

Tgt Ion: 164 Resp: 27171202
Ion Ratio Lower Upper
164 100
166 105.2 95.3 142.9
129 96.3 84.5 126.7
131 97.2 77.3 115.9





#53

Toluene

Concen: 12.112 ppbv

RT: 9.87 min Scan# 2202

Delta R.T. 0.00 min

Lab File: VL034327.D

Acq: 17 Oct 2019 22:02

Instrument :

MSVOA_L

ClientSampleId :

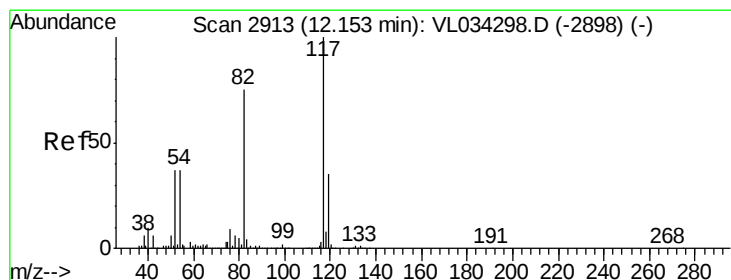
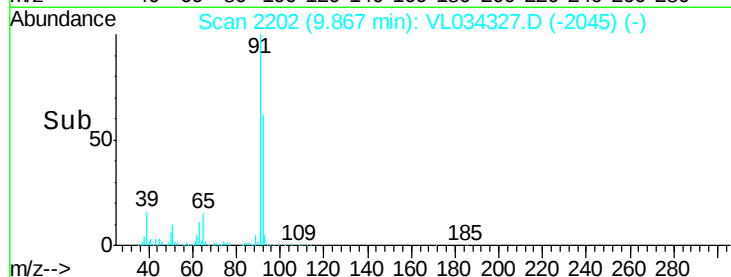
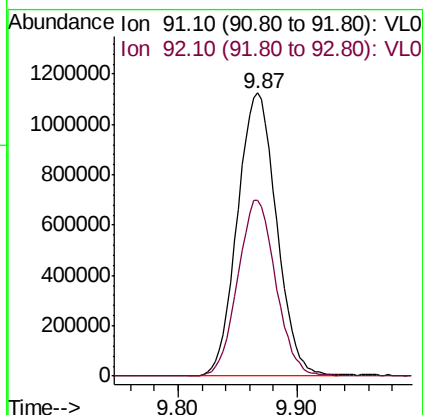
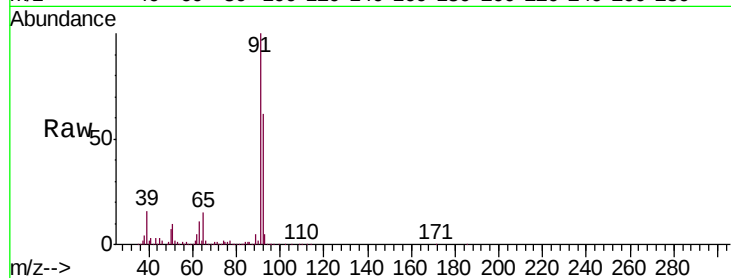
SV2

Tgt Ion: 91 Resp: 2558229

Ion Ratio Lower Upper

91 100

92 60.9 48.4 72.6



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.17 min Scan# 2919

Delta R.T. 0.02 min

Lab File: VL034327.D

Acq: 17 Oct 2019 22:02

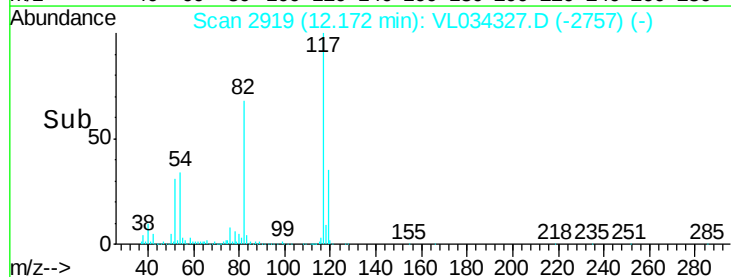
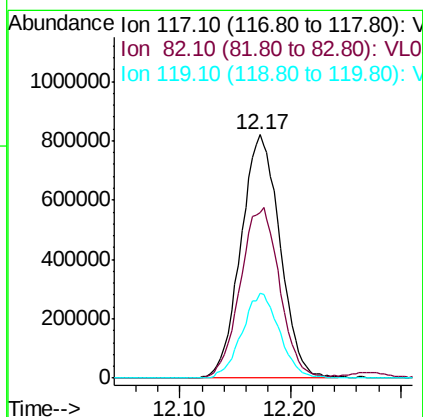
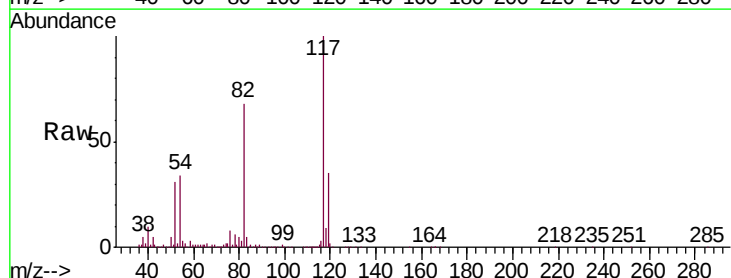
Tgt Ion: 117 Resp: 2011668

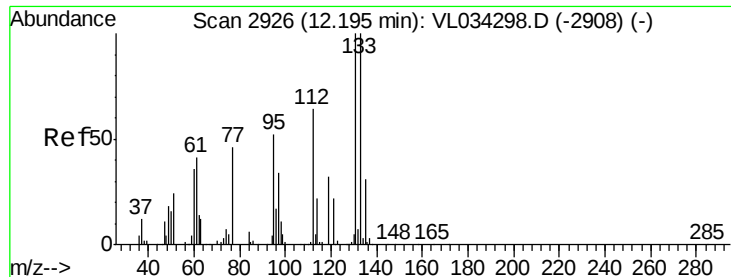
Ion Ratio Lower Upper

117 100

82 70.4 55.5 83.3

119 33.5 26.5 39.7

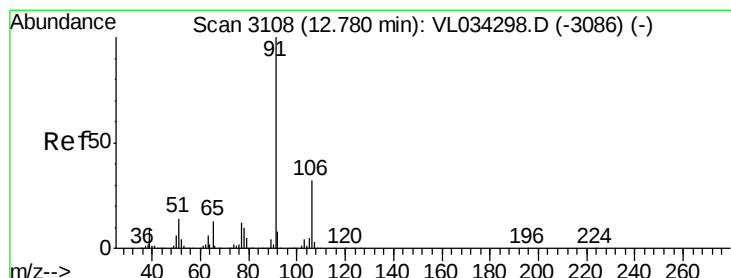
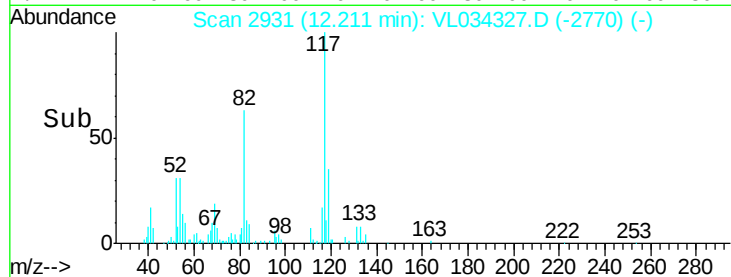
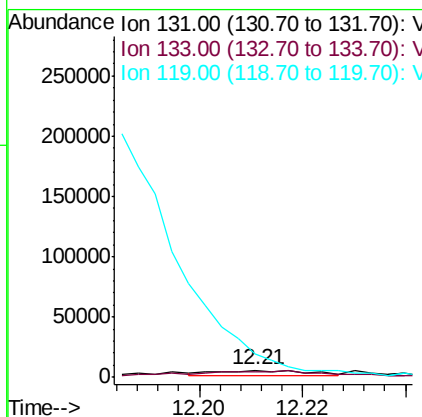
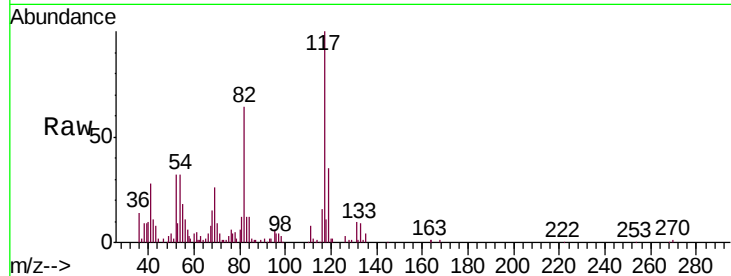




#56
 1,1,1,2-Tetrachloroethane
 Concen: 0.059 ppbv
 RT: 12.21 min Scan# 2931
 Delta R.T. 0.02 min
 Lab File: VL034327.D
 Acq: 17 Oct 2019 22:02

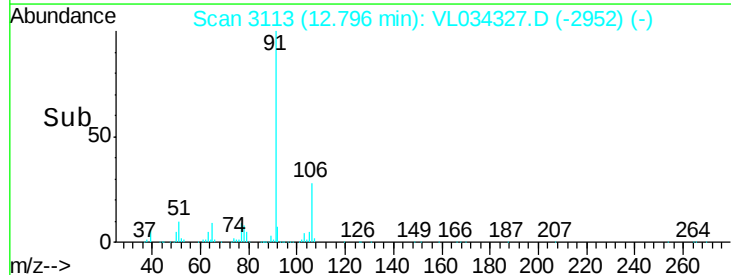
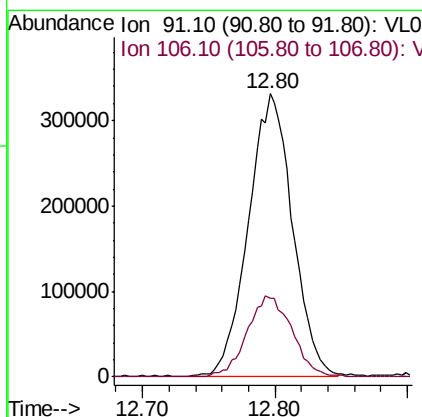
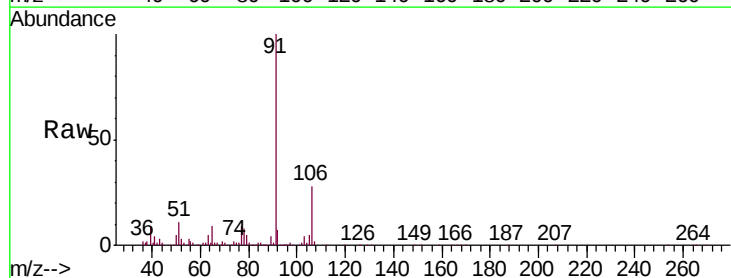
Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

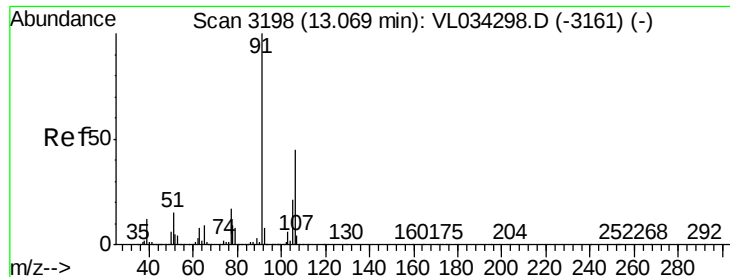
Tgt Ion: 131 Resp: 5504
 Ion Ratio Lower Upper
 131 100
 133 240.0 77.1 115.7#
 119 0.0 49.0 73.4#



#58
 Ethyl Benzene
 Concen: 2.718 ppbv
 RT: 12.80 min Scan# 3113
 Delta R.T. 0.02 min
 Lab File: VL034327.D
 Acq: 17 Oct 2019 22:02

Tgt Ion: 91 Resp: 764340
 Ion Ratio Lower Upper
 91 100
 106 27.7 25.3 37.9

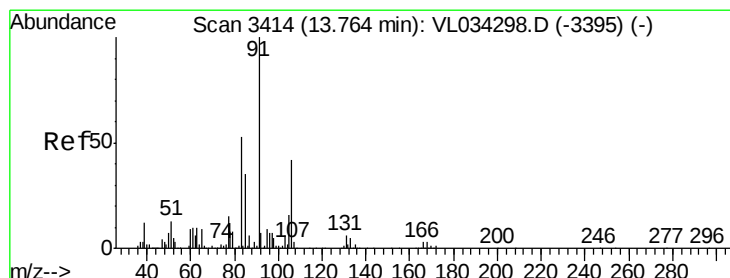
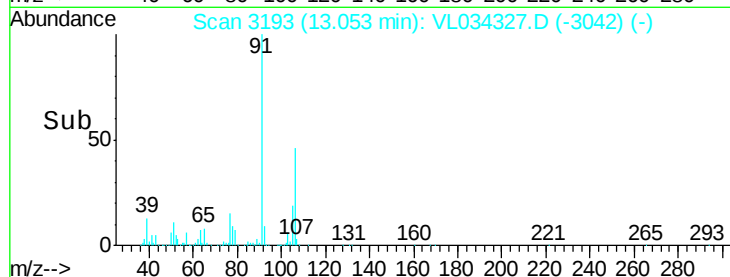
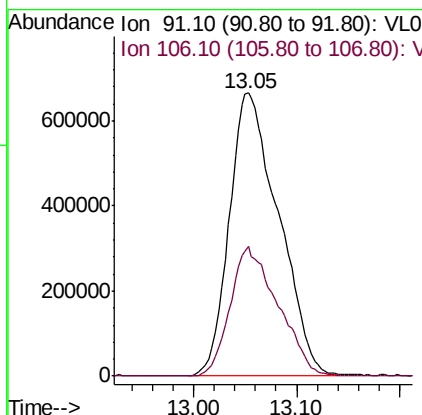
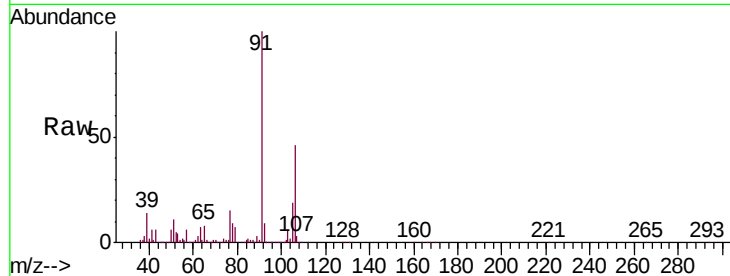




#59
m/p-Xylene
Concen: 9.025 ppbv
RT: 13.05 min Scan# 3193
Delta R.T. -0.02 min
Lab File: VL034327.D
Acq: 17 Oct 2019 22:02

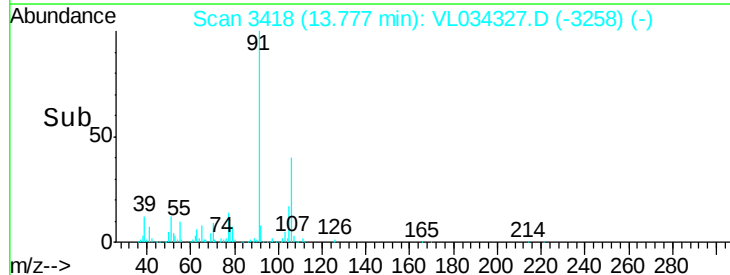
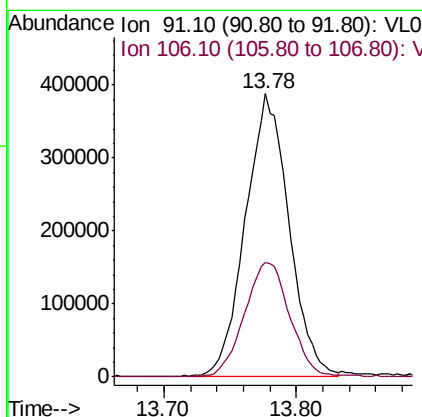
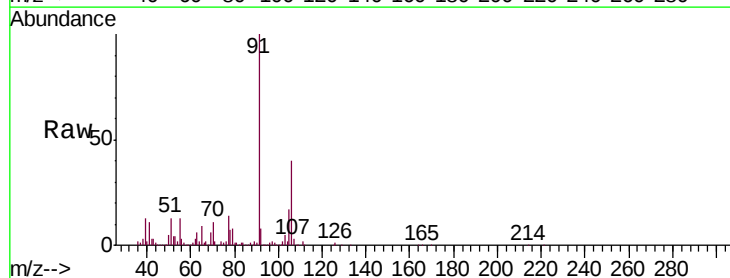
Instrument :
MSVOA_L
ClientSampleId :
SV2

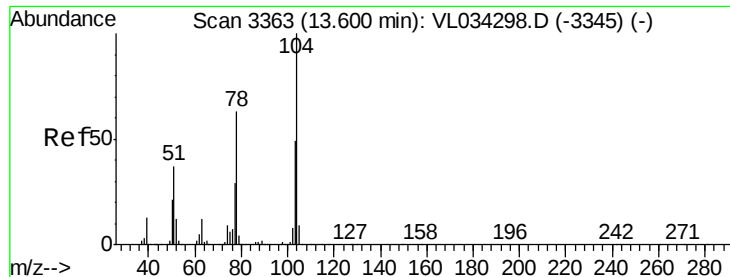
Tgt Ion: 91 Resp: 2198893
Ion Ratio Lower Upper
91 100
106 44.7 35.4 53.2



#60
o-Xylene
Concen: 3.616 ppbv
RT: 13.78 min Scan# 3418
Delta R.T. 0.01 min
Lab File: VL034327.D
Acq: 17 Oct 2019 22:02

Tgt Ion: 91 Resp: 877369
Ion Ratio Lower Upper
91 100
106 42.8 21.6 64.6





#61

Styrene

Concen: 0.184 ppbv

RT: 13.62 min Scan# 3369

Delta R.T. 0.02 min

Lab File: VL034327.D

Acq: 17 Oct 2019 22:02

Instrument :

MSVOA_L

ClientSampled :

SV2

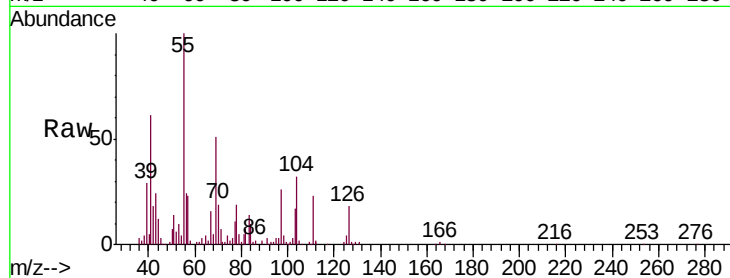
Tgt Ion:104 Resp: 31393

Ion Ratio Lower Upper

104 100

78 150.0 47.8 71.8#

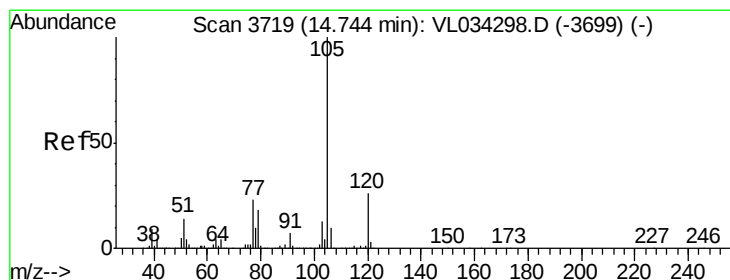
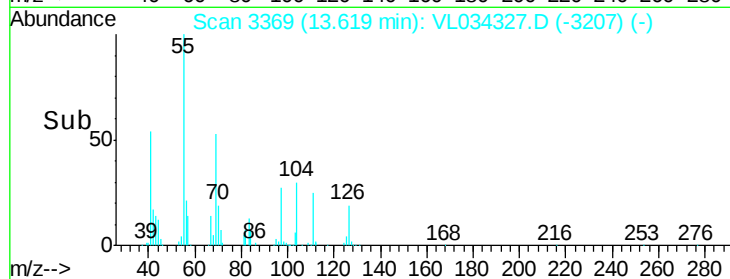
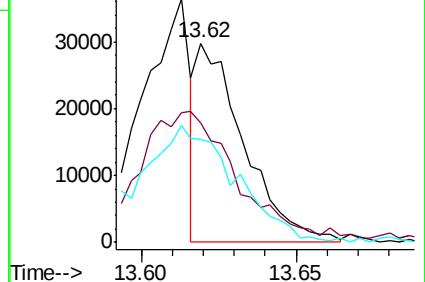
103 0.0 39.0 58.6#



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 0.123 ppbv

RT: 14.75 min Scan# 3722

Delta R.T. 0.01 min

Lab File: VL034327.D

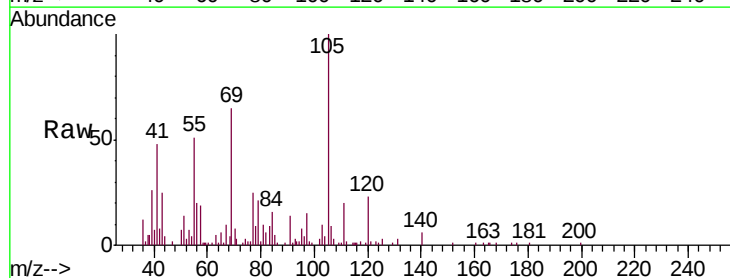
Acq: 17 Oct 2019 22:02

Tgt Ion:105 Resp: 39369

Ion Ratio Lower Upper

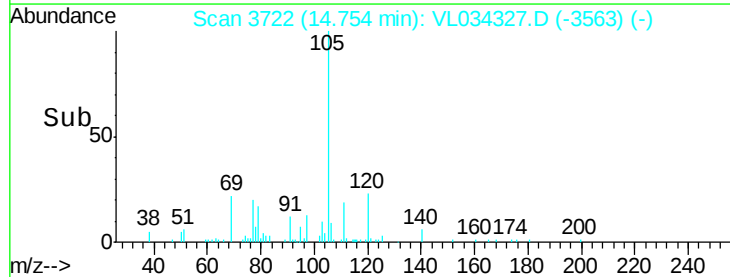
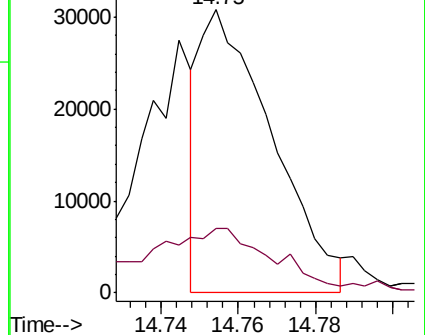
105 100

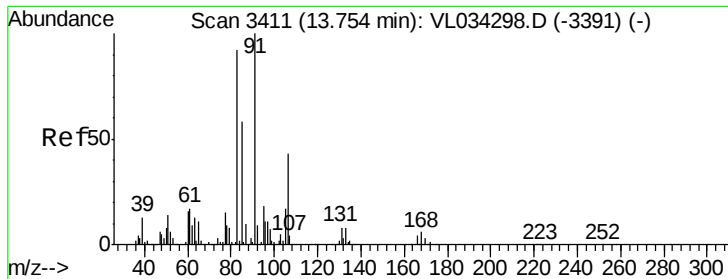
120 43.6 20.8 31.2#



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: 0.088 ppbv

RT: 13.65 min Scan# 3378

Delta R.T. -0.11 min

Lab File: VL034327.D

Acq: 17 Oct 2019 22:02

Instrument :

MSVOA_L

ClientSampled :

SV2

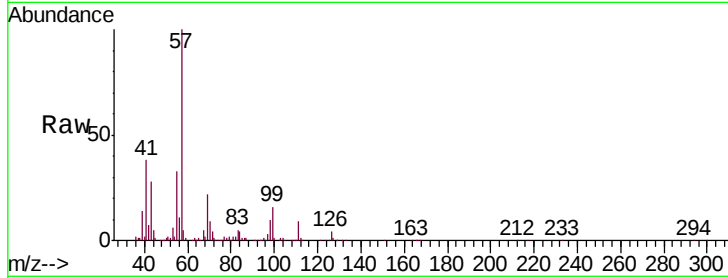
Tgt Ion: 83 Resp: 17077

Ion Ratio Lower Upper

83 100

131 5.7 4.8 14.4

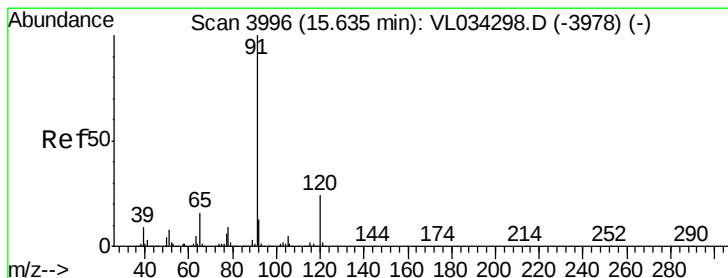
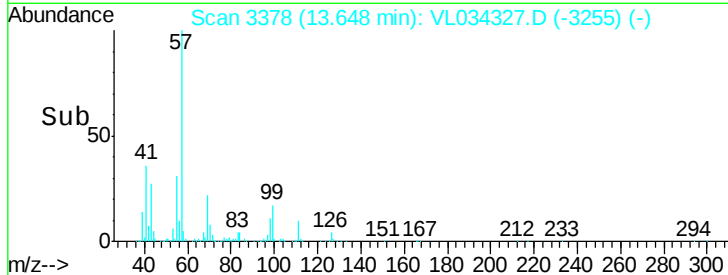
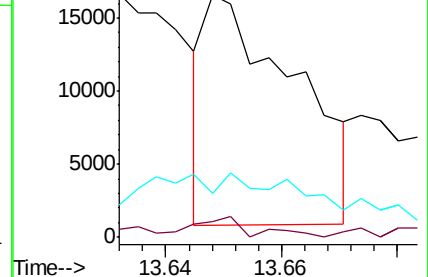
85 78.1 32.5 97.4



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 131.00 (130.70 to 131.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#64

n-propylbenzene

Concen: 0.255 ppbv

RT: 15.65 min Scan# 4002

Delta R.T. 0.02 min

Lab File: VL034327.D

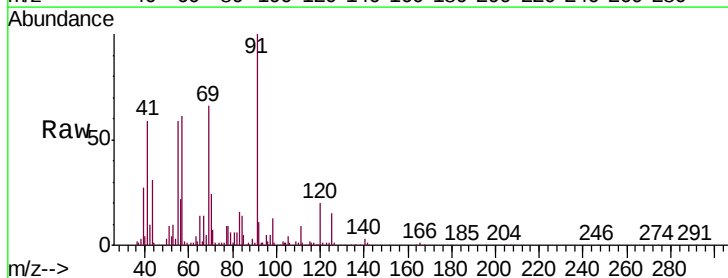
Acq: 17 Oct 2019 22:02

Tgt Ion: 120 Resp: 20933

Ion Ratio Lower Upper

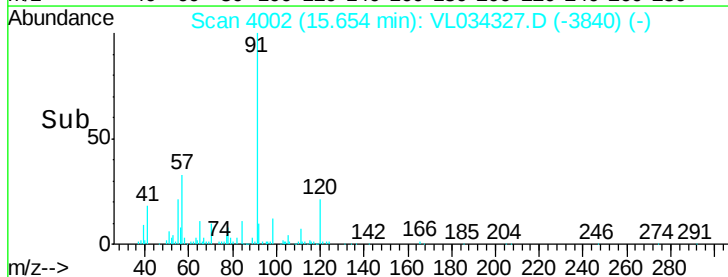
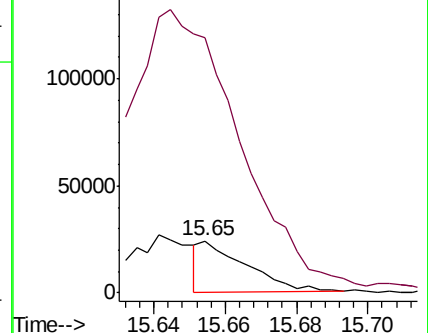
120 100

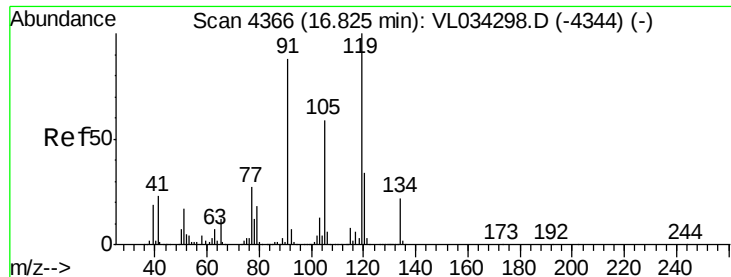
91 0.0 374.9 562.3#



Abundance Ion 120.20 (119.90 to 120.90): VL0

Ion 91.10 (90.80 to 91.80): VL0

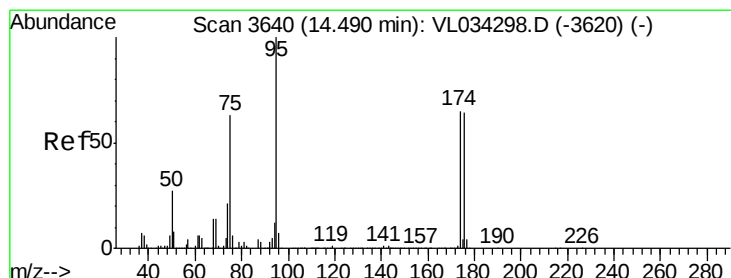
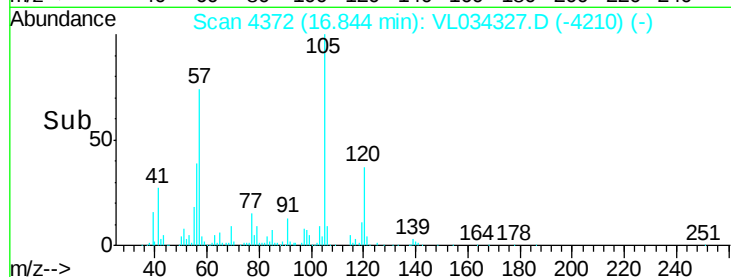
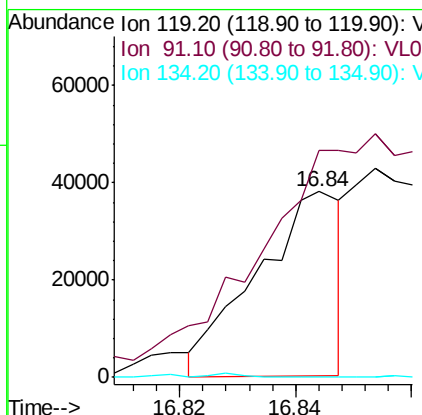
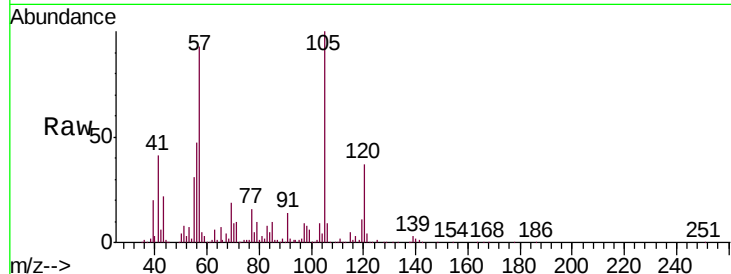




#65
 tert-Butylbenzene
 Concen: 0.136 ppbv
 RT: 16.84 min Scan# 4372
 Delta R.T. 0.02 min
 Lab File: VL034327.D
 Acq: 17 Oct 2019 22:02

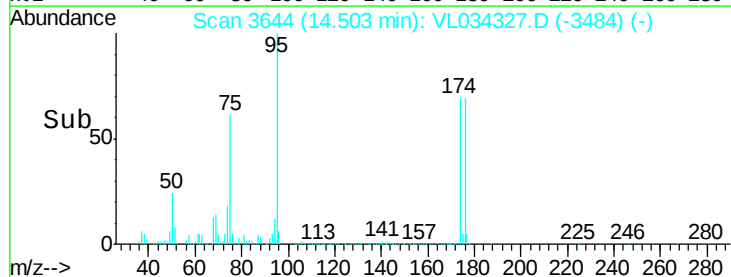
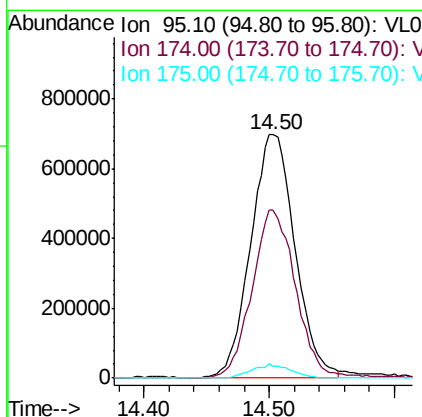
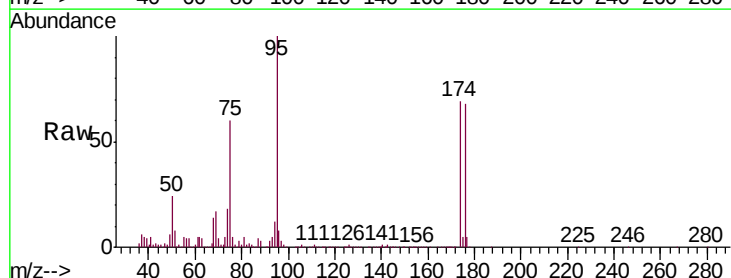
Instrument :
 MSVOA_L
 ClientSampleId :
 SV2

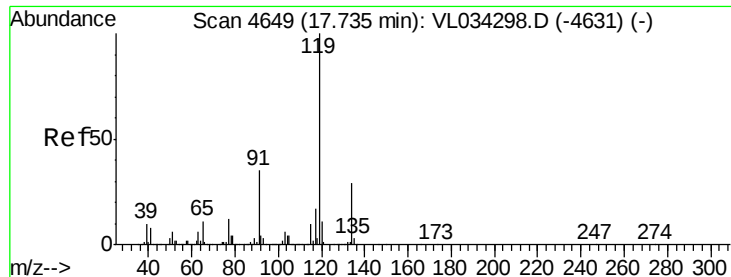
Tgt Ion: 119 Resp: 38550
 Ion Ratio Lower Upper
 119 100
 91 0.0 71.4 107.0#
 134 0.0 15.9 23.9#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.026 ppbv
 RT: 14.50 min Scan# 3644
 Delta R.T. 0.01 min
 Lab File: VL034327.D
 Acq: 17 Oct 2019 22:02

Tgt Ion: 95 Resp: 1708113
 Ion Ratio Lower Upper
 95 100
 174 69.0 52.6 78.8
 175 5.1 3.8 5.6





#69

p-Isopropyltoluene

Concen: 0.056 ppbv

RT: 17.75 min Scan# 4653

Delta R.T. 0.01 min

Lab File: VL034327.D

Acq: 17 Oct 2019 22:02

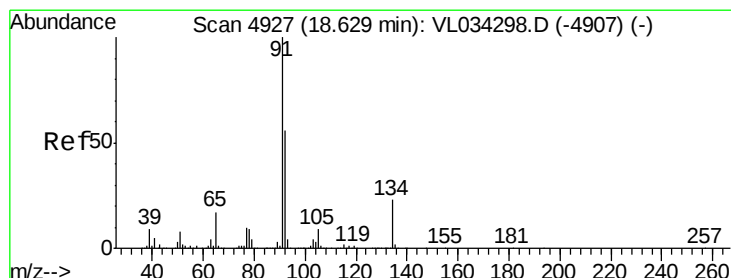
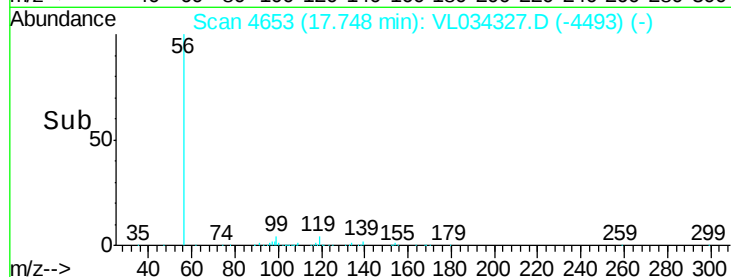
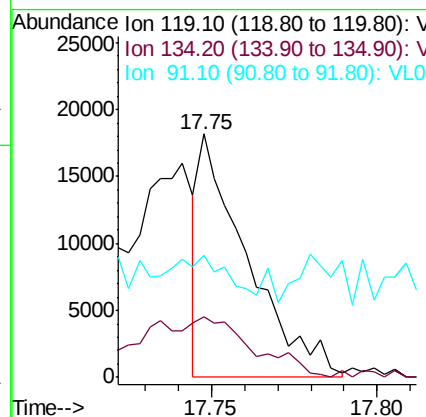
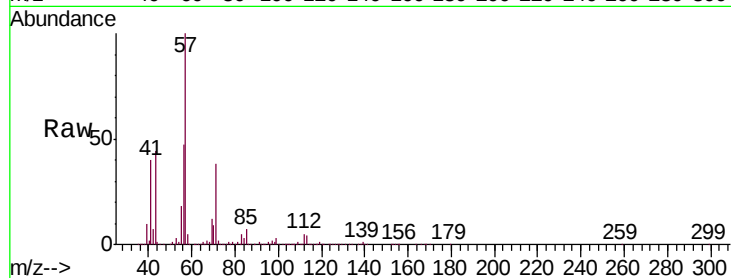
Instrument :

MSVOA_L

ClientSampled :

SV2

Tgt Ion:	119	Resp:	18297
Ion	Ratio	Lower	Upper
119	100		
134	62.7	21.3	31.9#
91	54.8	26.6	39.8#



#70

n-Butylbenzene

Concen: 0.119 ppbv

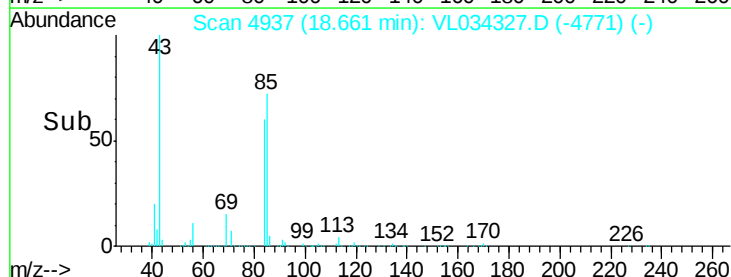
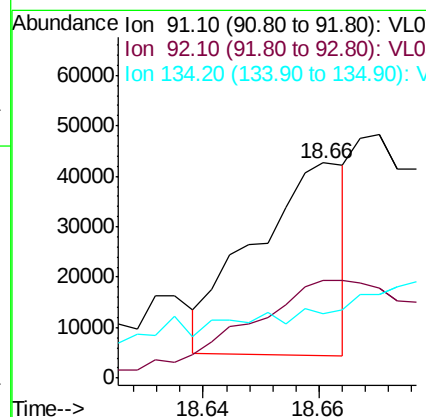
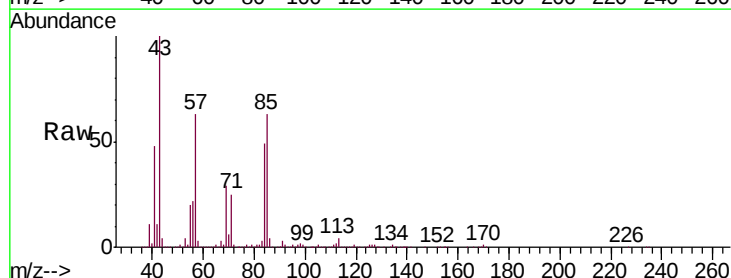
RT: 18.66 min Scan# 4937

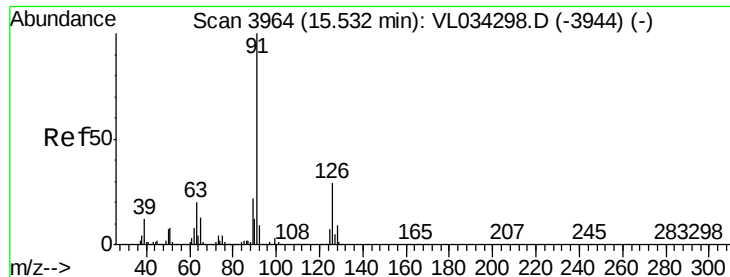
Delta R.T. 0.03 min

Lab File: VL034327.D

Acq: 17 Oct 2019 22:02

Tgt Ion:	91	Resp:	42059
Ion	Ratio	Lower	Upper
91	100		
92	123.7	44.5	66.7#
134	0.0	18.2	27.2#





#71

2-Chlorotoluene

Concen: 0.343 ppbv

RT: 15.40 min Scan# 3924

Delta R.T. -0.13 min

Lab File: VL034327.D

Acq: 17 Oct 2019 22:02

Instrument :

MSVOA_L

ClientSampleId :

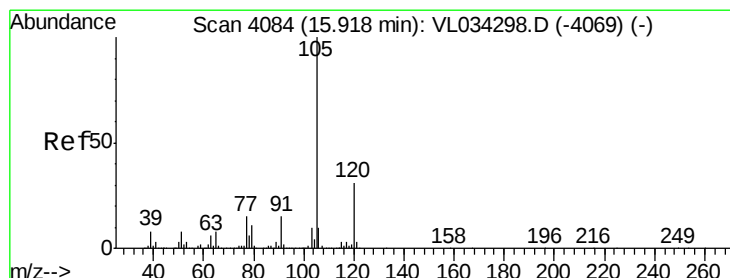
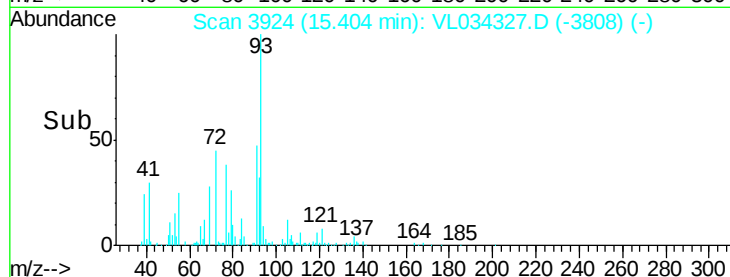
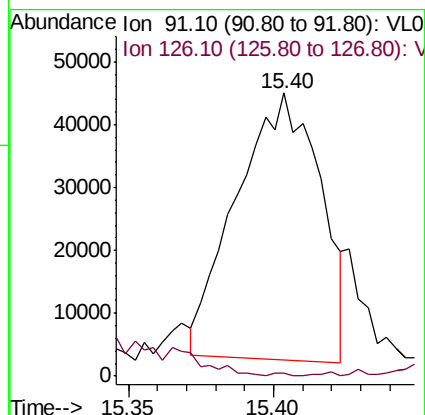
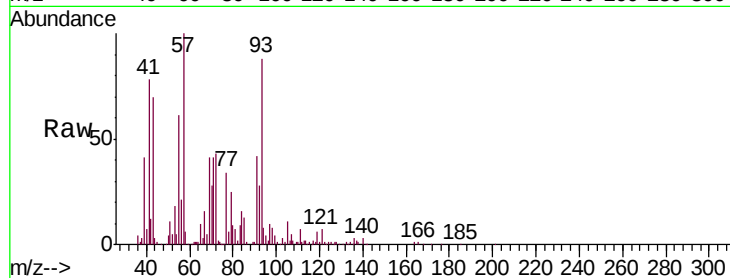
SV2

Tgt Ion: 91 Resp: 85098

Ion Ratio Lower Upper

91 100

126 19.6 11.9 47.5



#72

4-Ethyltoluene

Concen: 1.183 ppbv

RT: 15.93 min Scan# 4087

Delta R.T. 0.01 min

Lab File: VL034327.D

Acq: 17 Oct 2019 22:02

Tgt Ion: 105 Resp: 322504

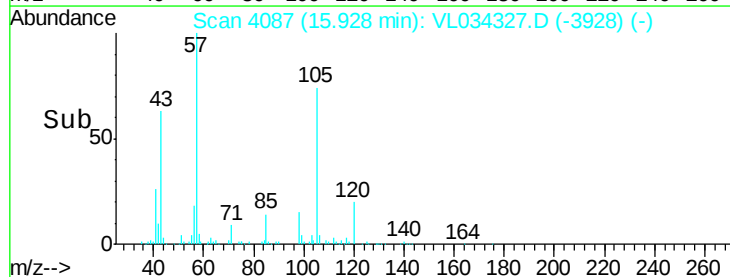
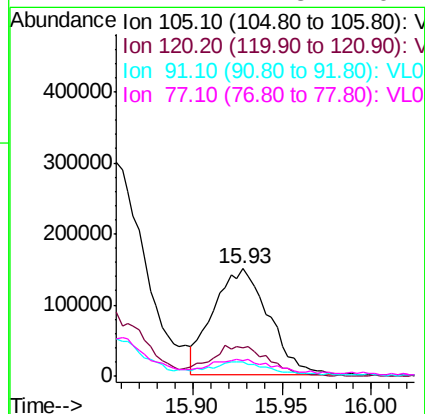
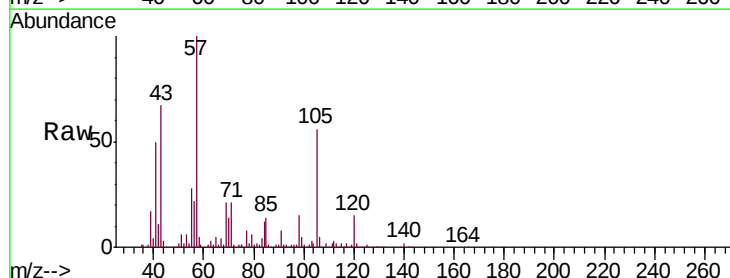
Ion Ratio Lower Upper

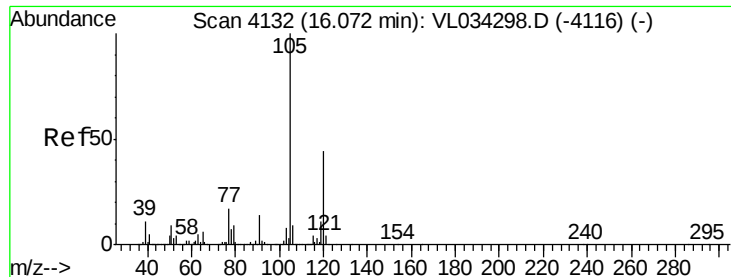
105 100

120 30.1 23.8 35.8

91 12.3 11.2 16.8

77 17.1 12.8 19.2





#73

1,3,5-Trimethylbenzene

Concen: 0.661 ppbv

RT: 16.08 min Scan# 4135

Delta R.T. 0.01 min

Lab File: VL034327.D

Acq: 17 Oct 2019 22:02

Instrument :

MSVOA_L

ClientSampleId :

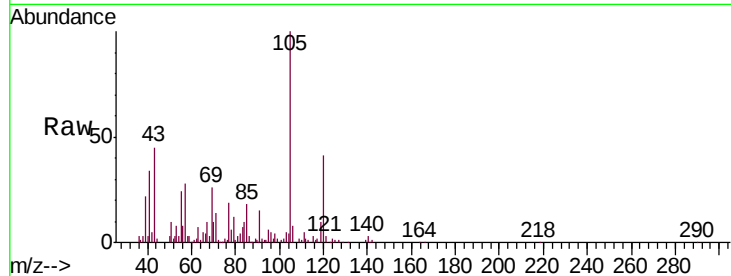
SV2

Tgt Ion:105 Resp: 178722

Ion Ratio Lower Upper

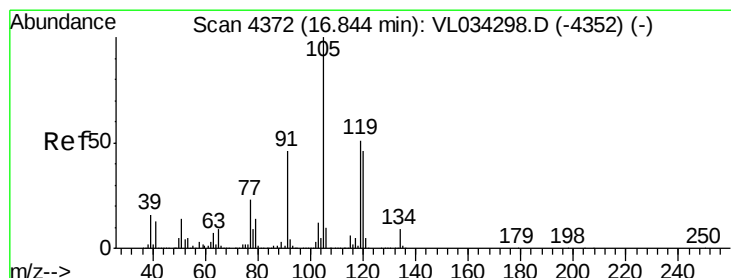
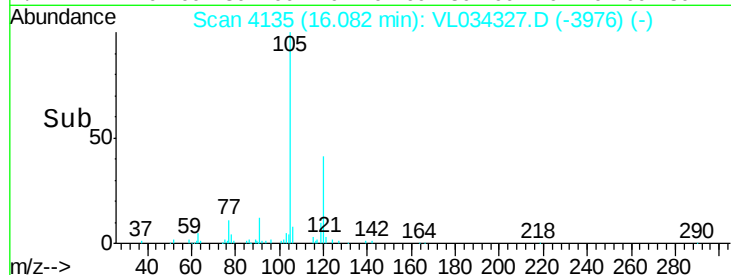
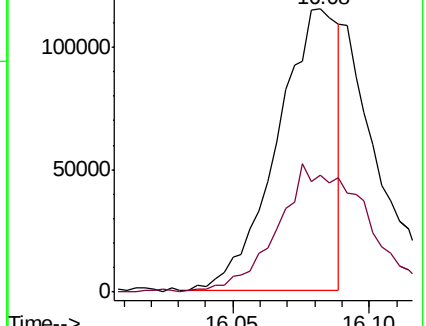
105 100

120 40.9 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: 3.410 ppbv

RT: 16.85 min Scan# 4375

Delta R.T. 0.01 min

Lab File: VL034327.D

Acq: 17 Oct 2019 22:02

Tgt Ion:105 Resp: 960841

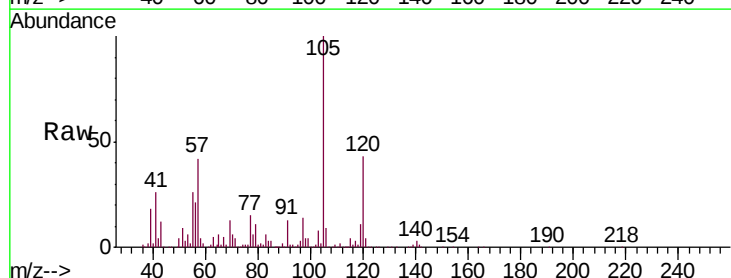
Ion Ratio Lower Upper

105 100

120 43.2 37.0 55.6

91 11.9 38.2 57.2#

77 14.5 19.0 28.4#

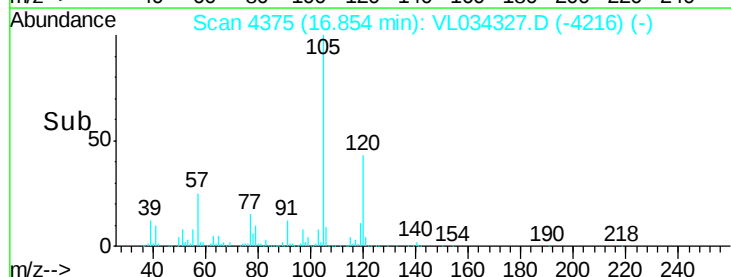
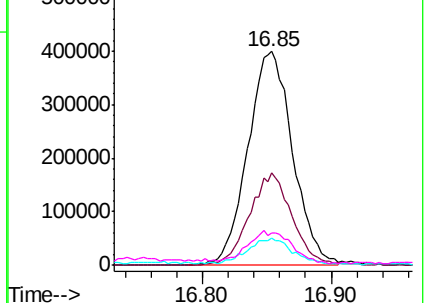


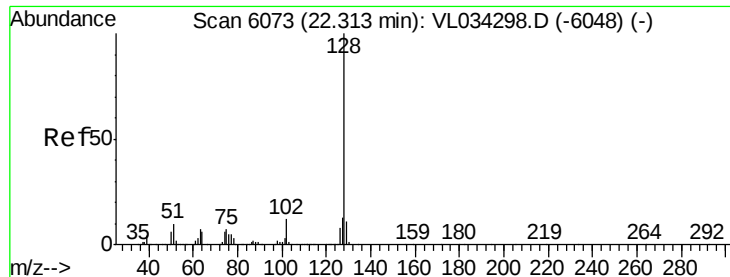
Abundance Ion 105.10 (104.80 to 105.80): V

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





#79

Naphthalene

Concen: 0.194 ppbv

RT: 22.33 min Scan# 6079

Delta R.T. 0.02 min

Lab File: VL034327.D

Acq: 17 Oct 2019 22:02

Instrument :

MSVOA_L

ClientSampled :

SV2

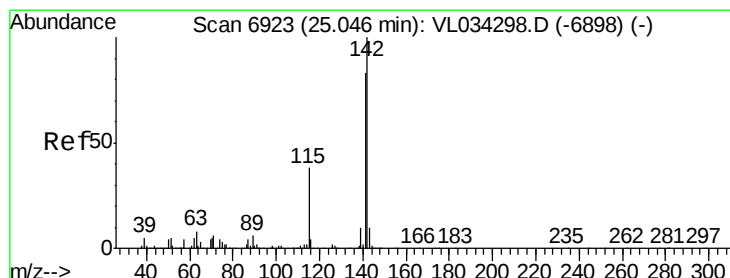
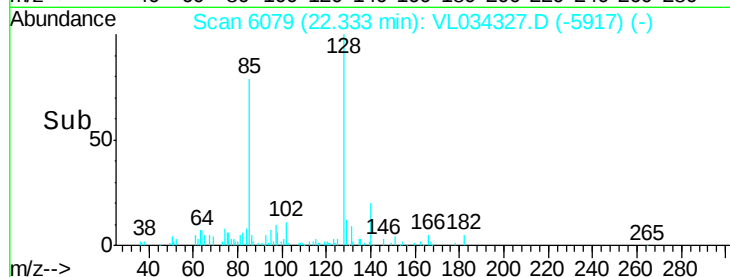
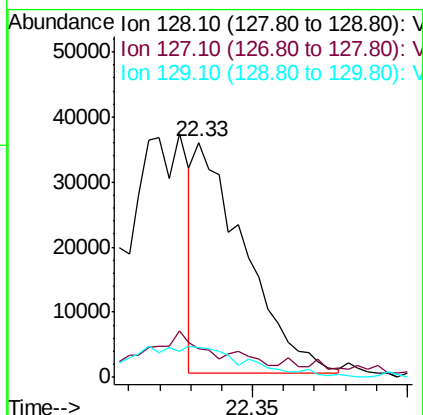
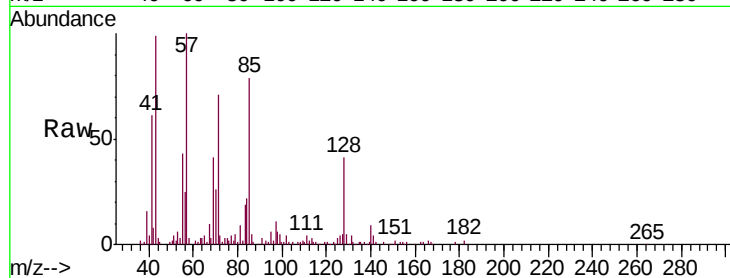
Tgt Ion:128 Resp: 39885

Ion Ratio Lower Upper

128 100

127 8.3 10.2 15.4#

129 11.9 8.9 13.3



#80

Naphthalene, 2-methyl-

Concen: 0.211 ppbv

RT: 25.04 min Scan# 6922

Delta R.T. -0.00 min

Lab File: VL034327.D

Acq: 17 Oct 2019 22:02

Tgt Ion:142 Resp: 12581

Ion Ratio Lower Upper

142 100

141 88.5 65.7 98.5

115 57.2 30.9 46.3#

