

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062419\
 Data File : VL033959.D
 Acq On : 25 Jun 2019 5:55
 Operator : SY/AP
 Sample : K3474-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 INFLUENT

Quant Time: Jun 25 06:38:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 07 08:53:27 2019
 QLast Update : Fri Jun 07 08:53:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.74	49	821458	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.27	114	1938588	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.21	117	2405819	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.55	95	1833309	9.28	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.80%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.07	85	52022	0.390 ppbv	93
3) Chlorodifluoromethane	3.00	51	122999	1.272 ppbv #	84
4) Chloromethane	3.16	50	14704	0.267 ppbv	98
7) Chloroethane	3.59	64	10527	0.520 ppbv	99
9) Propene	3.03	41	71252	1.969 ppbv	90
10) Heptane	8.22	43	16901	0.185 ppbv	98
11) Trichlorofluoromethane	3.99	101	82507	0.480 ppbv	89
12) 1,1,2-Trichlorotrifluoroet	4.54	101	51759	0.445 ppbv	97
13) Ethanol	3.65	45	1745821	148.290 ppbv	97
15) Acetone	3.89	43	2455907	20.499 ppbv	100
16) 1,3-Butadiene	3.33	39	97954	2.148 ppbv #	12
17) tert-Butyl alcohol	4.36	59	151960	1.623 ppbv	99
18) 1,1-Dichloroethene	4.34	96	30111	0.613 ppbv	94
19) Isopropyl Alcohol	4.03	45	2133825	31.177 ppbv	99
20) Methylene Chloride	4.40	84	169299	3.624 ppbv	96
21) Allyl Chloride	4.42	41	6688	0.098 ppbv #	1
22) trans-1,2-Dichloroethene	4.95	96	88475	1.710 ppbv	88
23) Vinyl Acetate	5.13	43	207387	1.489 ppbv #	79
24) 1,1-Dichloroethane	5.07	63	755534	6.976 ppbv	99
25) Ethyl Acetate	5.76	43	139874	0.767 ppbv #	86
26) Hexane	5.76	57	160189	1.928 ppbv #	43
27) Carbon Disulfide	4.61	76	3807	0.033 ppbv #	1
29) Chloroform	5.83	83	15663	0.110 ppbv	100
30) Cyclohexane	7.21	84	6849	0.117 ppbv #	2
31) cis-1,2-Dichloroethene	5.62	61	4430	0.061 ppbv	95
32) 1,1,1-Trichloroethane	6.60	97	4321830	31.489 ppbv	99
34) 2-Butanone	5.31	43	480473	4.393 ppbv	99
35) Carbon Tetrachloride	7.11	117	10394	0.069 ppbv #	67
36) Benzene	6.98	78	13950	0.094 ppbv	96
37) 1,2-Dichloroethane	6.59	62	288136	2.631 ppbv #	1
38) Trichloroethene	7.93	130	9446	0.164 ppbv	94
39) 1,2-Dichloropropane	7.27	63	498060	8.714 ppbv #	26
40) 1,4-Dioxane	7.95	88	1734	0.074 ppbv #	1
41) Tetrahydrofuran	6.13	42	418762	7.544 ppbv	99
44) 2,2,4-Trimethylpentane	7.96	57	123123	0.468 ppbv #	49
50) 4-Methyl-2-Pentanone	8.84	43	12682	0.078 ppbv #	39
51) 2-Hexanone	10.25	43	7338	0.058 ppbv #	29
52) Tetrachloroethene	11.34	164	3962	0.076 ppbv #	44
53) Toluene	9.92	91	574324	3.505 ppbv	99
56) 1,1,1,2-Tetrachloroethane	11.83	131	219704	2.090 ppbv #	1
57) Chlorobenzene	12.27	112	10770	0.060 ppbv #	68

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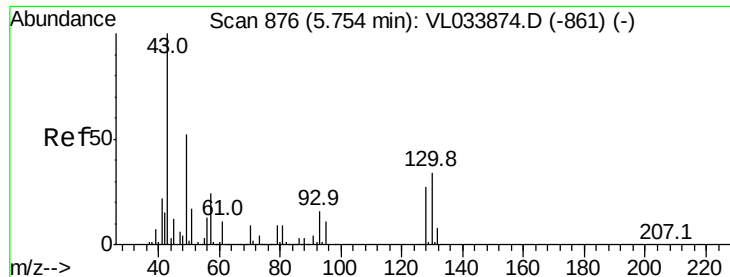
Instrument :
 MSVOA_L
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Quant Time: Jun 25 06:38:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
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 Response via : Initial Calibration

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

58) Ethyl Benzene	12.84	91	153425	0.566	ppbv	100
59) m/p-Xylene	13.09	91	461820	1.872	ppbv	98
60) o-Xylene	13.82	91	219314	0.861	ppbv	99
61) Styrene	13.66	104	17997	0.109	ppbv	91
65) tert-Butylbenzene	17.15	119	1400736	4.410	ppbv #	17
67) sec-Butylbenzene	17.74	105	21435	0.048	ppbv	98
72) 4-Ethyltoluene	15.97	105	39532	0.136	ppbv #	81
73) 1,3,5-Trimethylbenzene	16.13	105	30838	0.108	ppbv	97
74) 1,2,4-Trimethylbenzene	16.89	105	192279	0.584	ppbv #	72
75) 1,3-Dichlorobenzene	17.14	146	147804	0.717	ppbv #	1
76) 1,4-Dichlorobenzene	17.17	146	24636	0.130	ppbv #	1
81) 1,2,4-Trichlorobenzene	21.66	180	93265	0.562	ppbv #	27

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.74 min Scan# 873

Delta R.T. -0.01 min

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INFLUENT

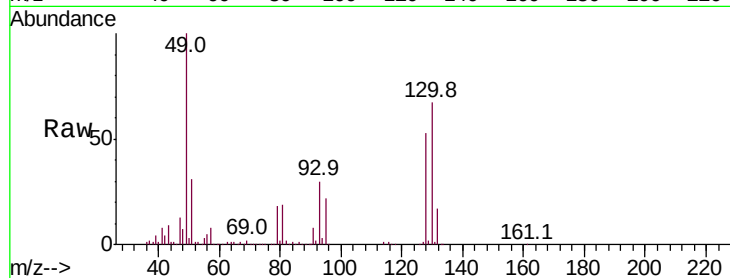
Tot Ion: 49 Resp: 821458

Ion Ratio Lower Upper

49 100

128 51.1 25.5 76.5

130 65.9 32.5 97.4



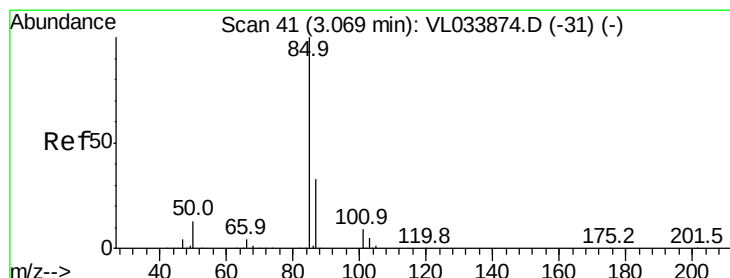
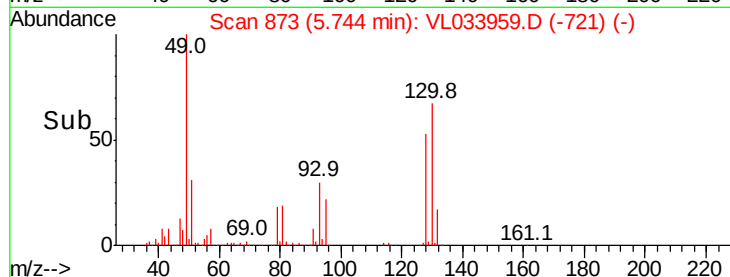
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

5.74

Time-->



#2

Dichlorodifluoromethane

Concen: 0.390 ppbv

RT: 3.07 min Scan# 41

Delta R.T. -0.00 min

Lab File: VL033959.D

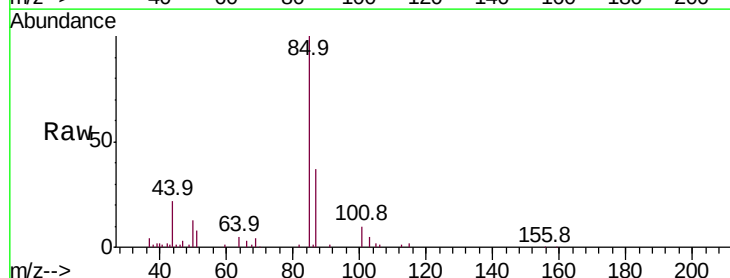
Acq: 25 Jun 2019 5:55

Tgt Ion: 85 Resp: 52022

Ion Ratio Lower Upper

85 100

87 37.1 26.6 40.0

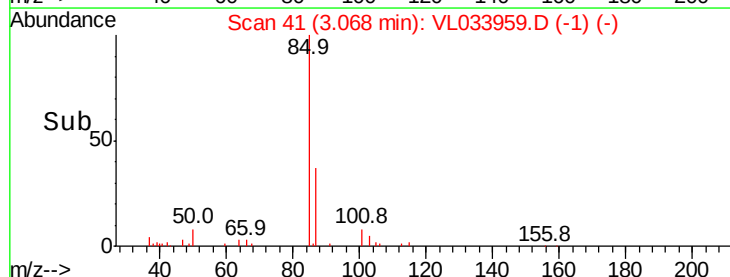


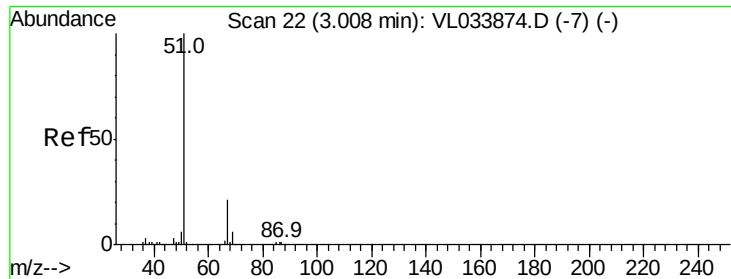
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.07

Time-->

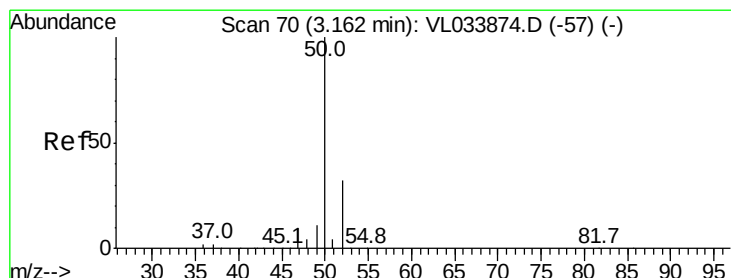
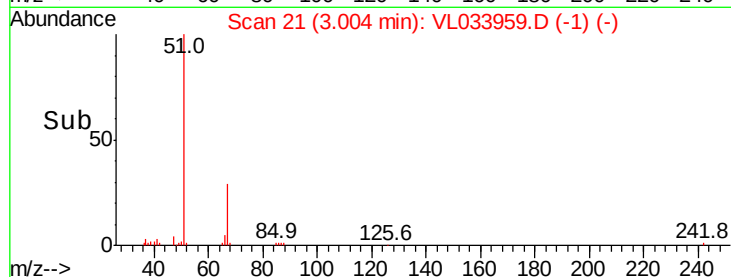
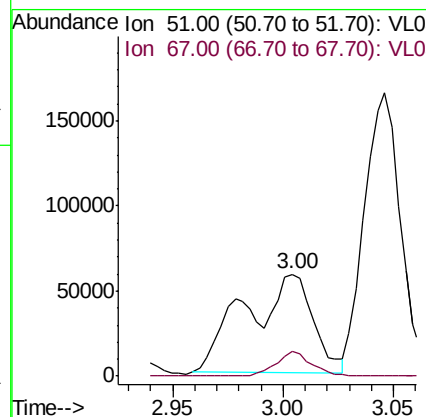
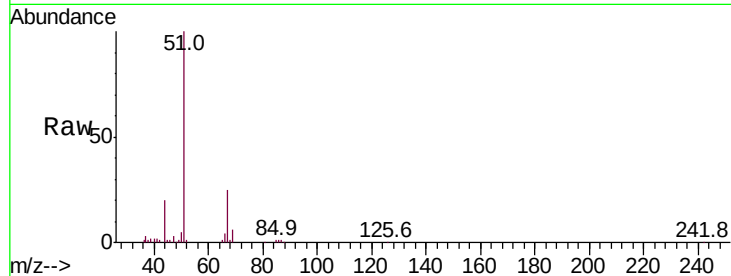




#3
 Chlorodifluoromethane
 Concen: 1.272 ppbv
 RT: 3.00 min Scan# 21
 Delta R.T. -0.00 min
 Lab File: VL033959.D
 Acq: 25 Jun 2019 5:55

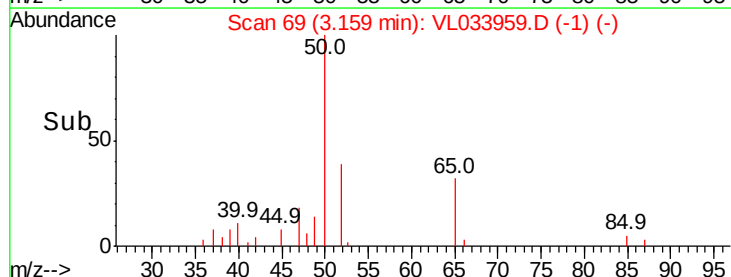
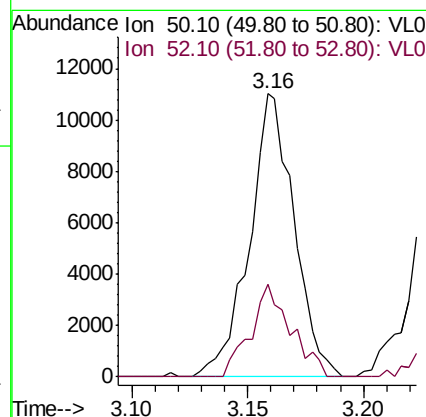
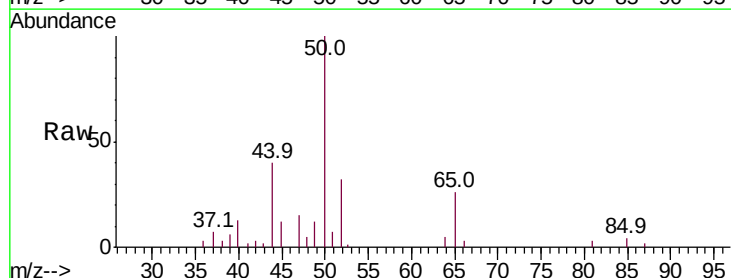
Instrument :
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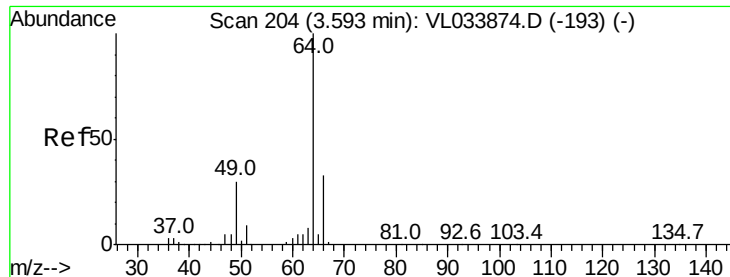
Tot Ion: 51 Resp: 122999
 Ion Ratio Lower Upper
 51 100
 67 13.1 16.4 24.6#



#4
 Chloromethane
 Concen: 0.267 ppbv
 RT: 3.16 min Scan# 69
 Delta R.T. -0.00 min
 Lab File: VL033959.D
 Acq: 25 Jun 2019 5:55

Tgt Ion: 50 Resp: 14704
 Ion Ratio Lower Upper
 50 100
 52 32.9 25.4 38.0





#7

Chloroethane

Concen: 0.520 ppbv

RT: 3.59 min Scan# 203

Delta R.T. -0.00 min

Lab File: VL033959.D

Acq: 25 Jun 2019 5:55

Instrument :

MSVOA_L

ClientSampleId :

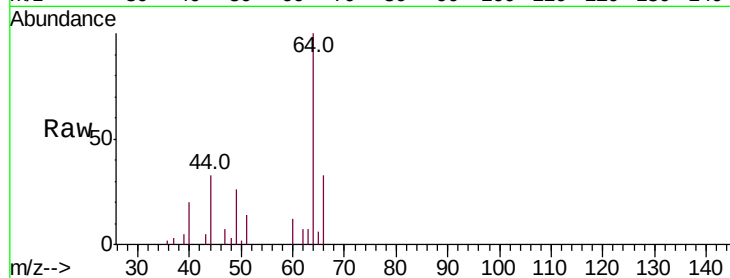
INFLUENT

Tot Ion: 64 Resp: 10527

Ion Ratio Lower Upper

64 100

66 32.7 26.7 40.1



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0

3.59

8000

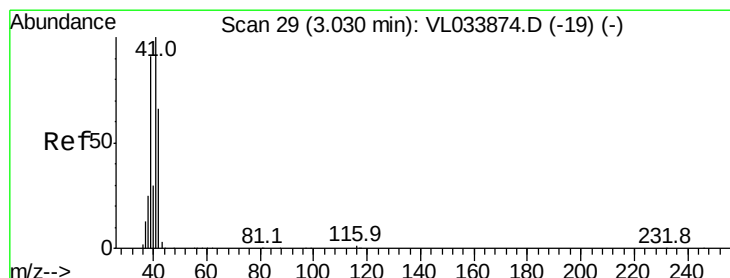
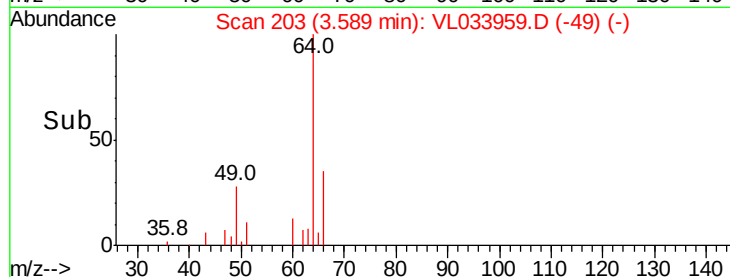
6000

4000

2000

0

Time-->



#9

Propene

Concen: 1.969 ppbv

RT: 3.03 min Scan# 29

Delta R.T. -0.00 min

Lab File: VL033959.D

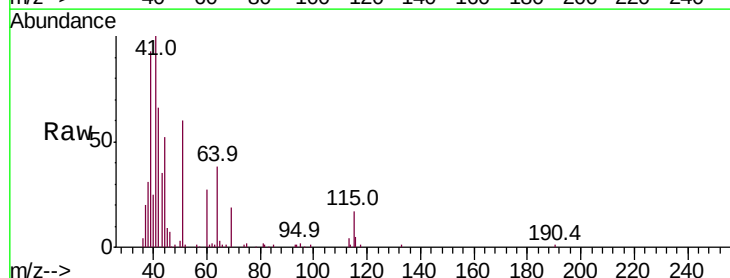
Acq: 25 Jun 2019 5:55

Tgt Ion: 41 Resp: 71252

Ion Ratio Lower Upper

41 100

42 62.1 56.3 84.5



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

3.03

50000

40000

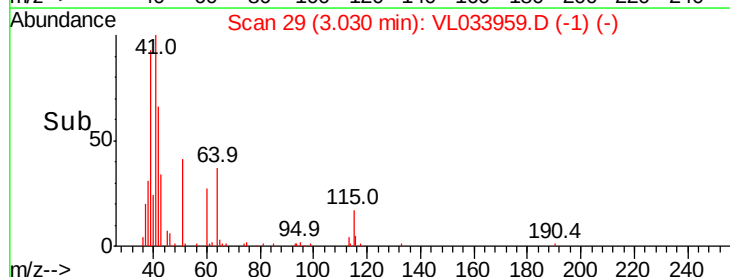
30000

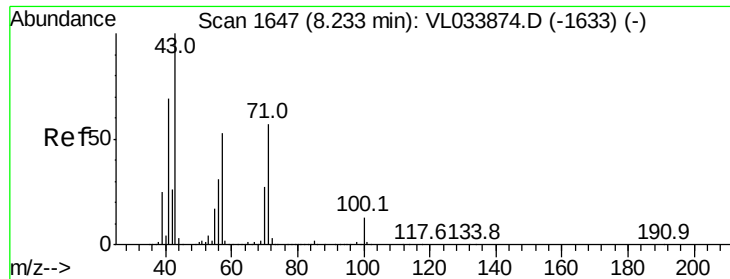
20000

10000

0

Time-->





#10

Heptane

Concen: 0.185 ppbv

RT: 8.22 min Scan# 1644

Delta R.T. -0.01 min

Lab File: VL033959.D

Acq: 25 Jun 2019 5:55

Instrument :

MSVOA_L

ClientSampleId :

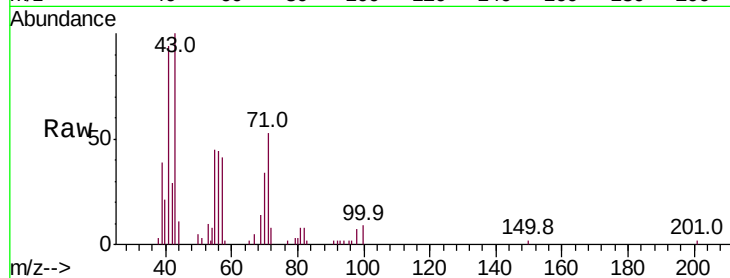
INFLUENT

Tot Ion: 43 Resp: 16901

Ion Ratio Lower Upper

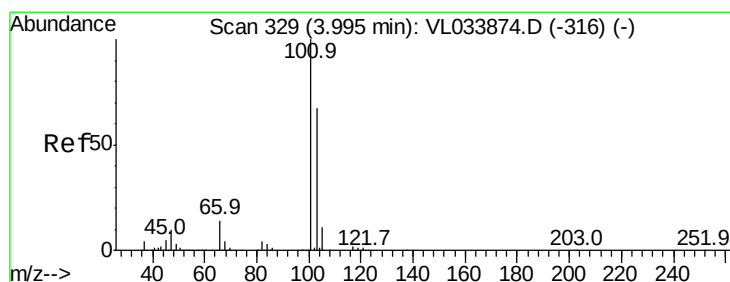
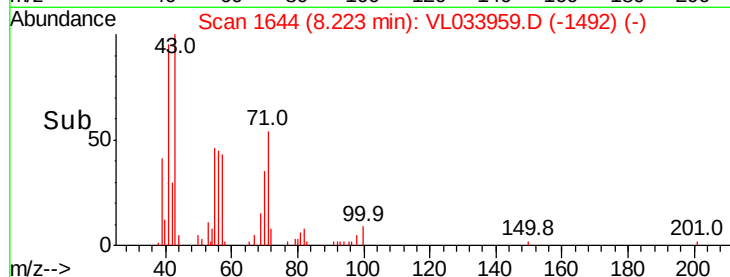
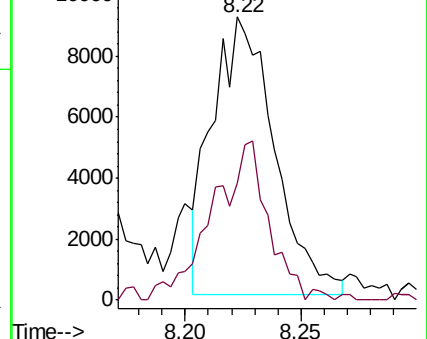
43 100

57 53.2 41.7 62.5



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#11

Trichlorofluoromethane

Concen: 0.480 ppbv

RT: 3.99 min Scan# 328

Delta R.T. -0.00 min

Lab File: VL033959.D

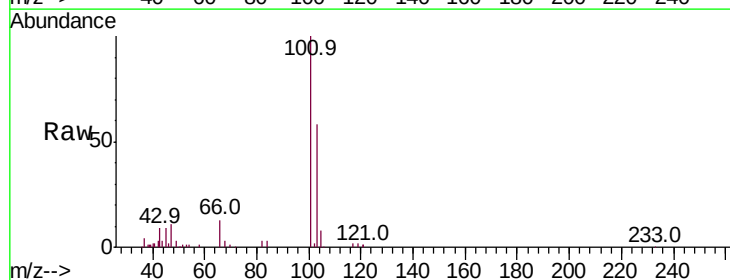
Acq: 25 Jun 2019 5:55

Tgt Ion:101 Resp: 82507

Ion Ratio Lower Upper

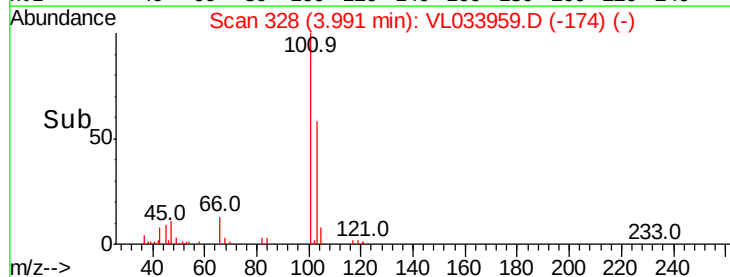
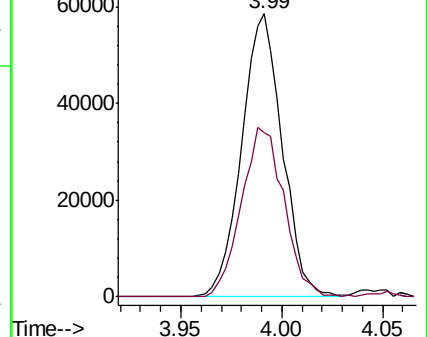
101 100

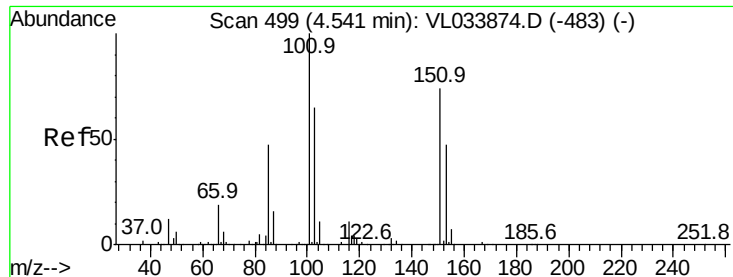
103 58.1 53.6 80.4



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.445 ppbv

RT: 4.54 min Scan# 498

Delta R.T. -0.00 min

Lab File: VL033959.D

Acq: 25 Jun 2019 5:55

Instrument :

MSVOA_L

ClientSampleId :

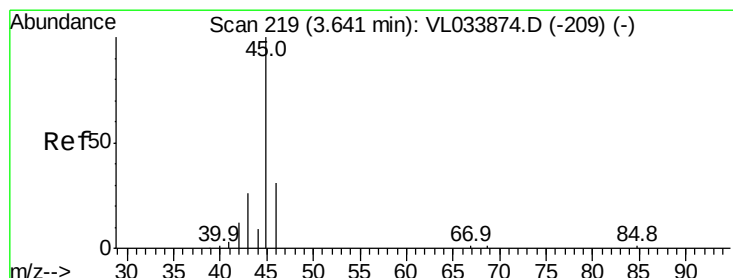
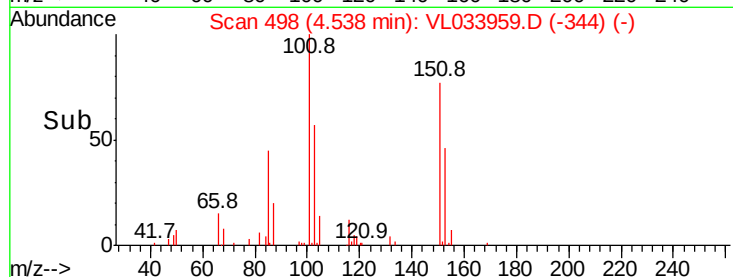
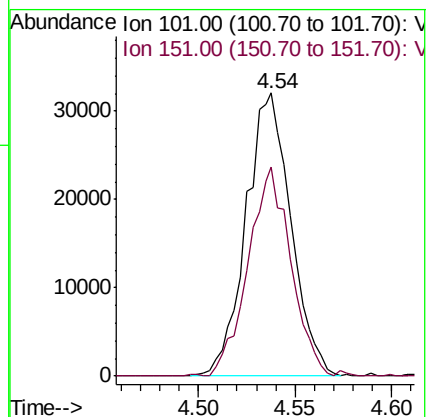
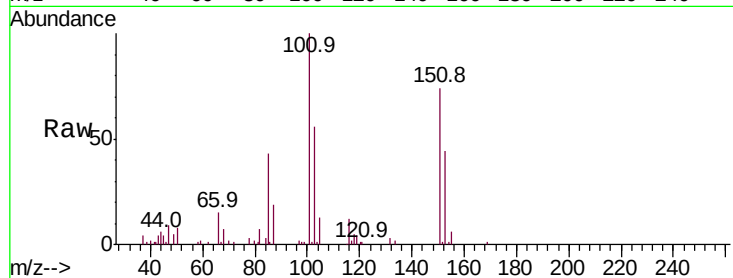
INFLUENT

Tot Ion:101 Resp: 51759

Ion Ratio Lower Upper

101 100

151 70.9 58.6 87.8



#13

Ethanol

Concen: 148.290 ppbv

RT: 3.65 min Scan# 222

Delta R.T. 0.01 min

Lab File: VL033959.D

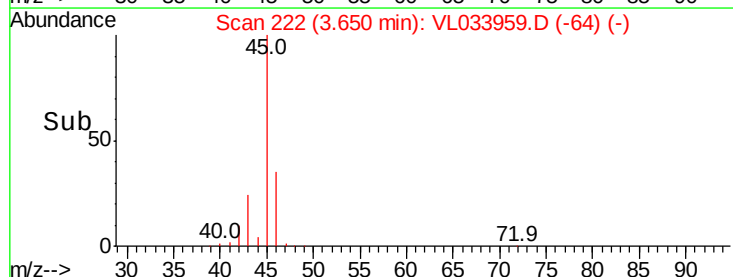
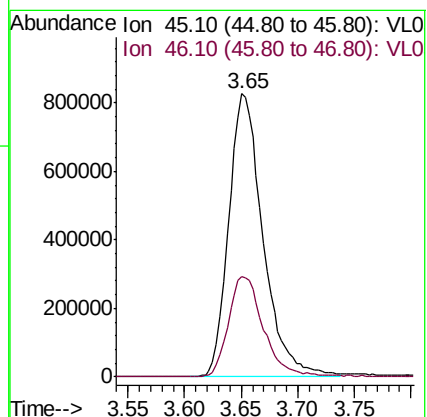
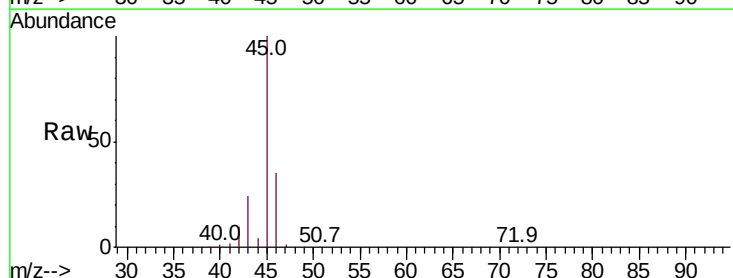
Acq: 25 Jun 2019 5:55

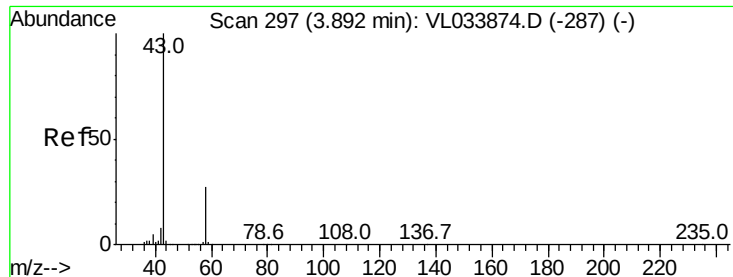
Tgt Ion: 45 Resp: 1745821

Ion Ratio Lower Upper

45 100

46 36.4 15.3 61.1





#15

Acetone

Concen: 20.499 ppbv

RT: 3.89 min Scan# 295

Delta R.T. -0.01 min

Lab File: VL033959.D

Acq: 25 Jun 2019 5:55

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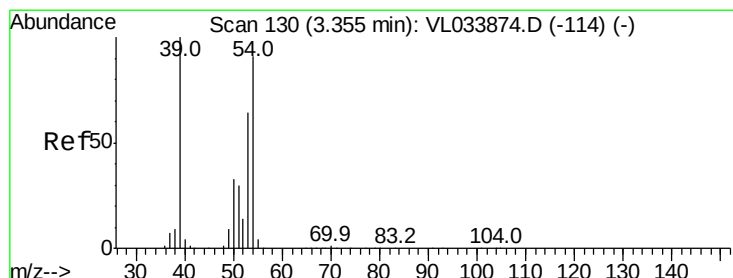
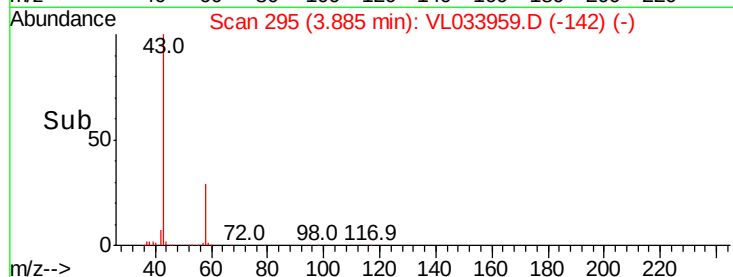
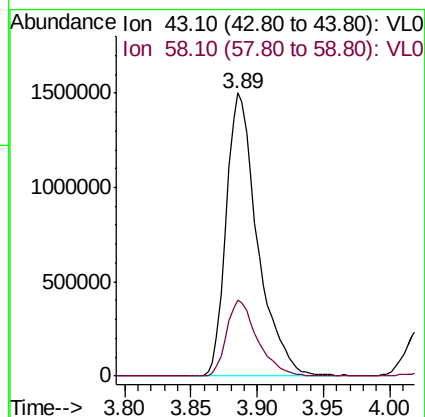
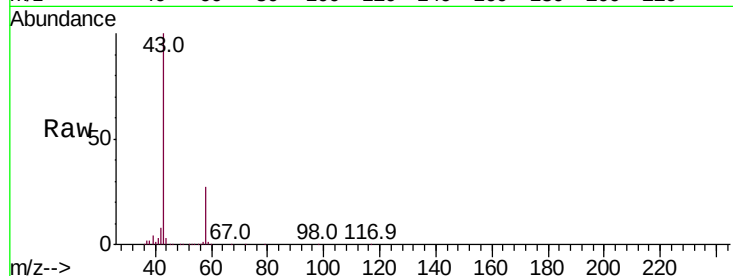
INFLUENT

Tot Ion: 43 Resp: 2455907

Ion Ratio Lower Upper

43 100

58 26.6 21.3 31.9



#16

1,3-Butadiene

Concen: 2.148 ppbv

RT: 3.33 min Scan# 122

Delta R.T. -0.03 min

Lab File: VL033959.D

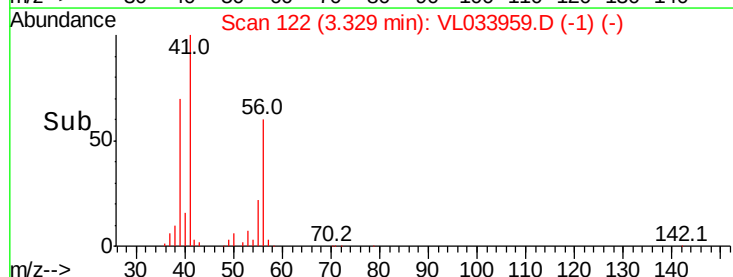
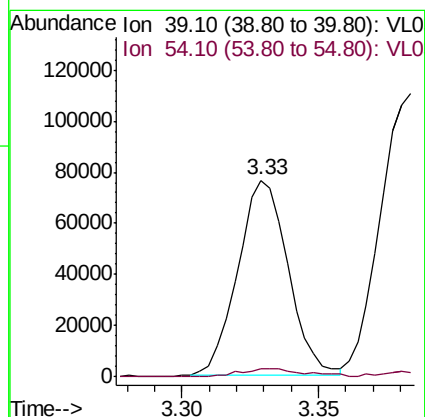
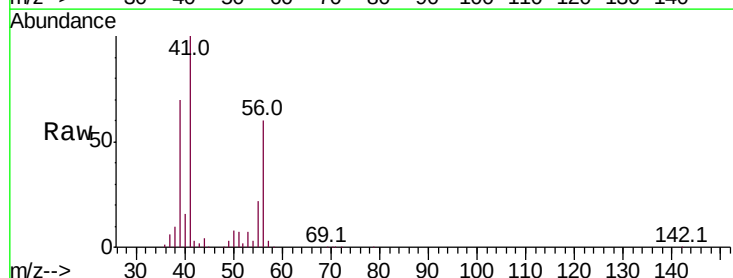
Acq: 25 Jun 2019 5:55

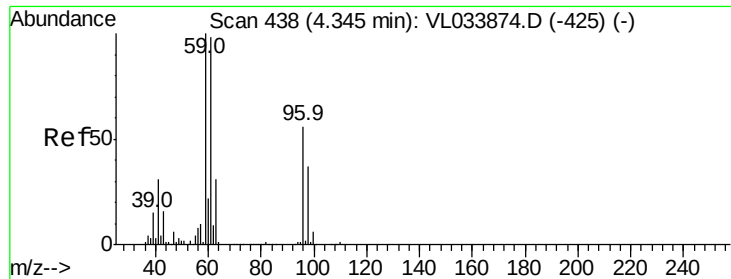
Tgt Ion: 39 Resp: 97954

Ion Ratio Lower Upper

39 100

54 5.5 68.6 103.0#



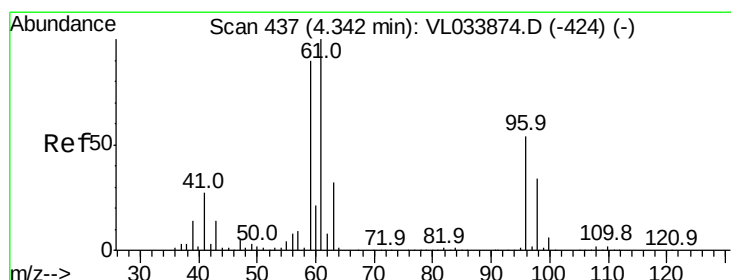
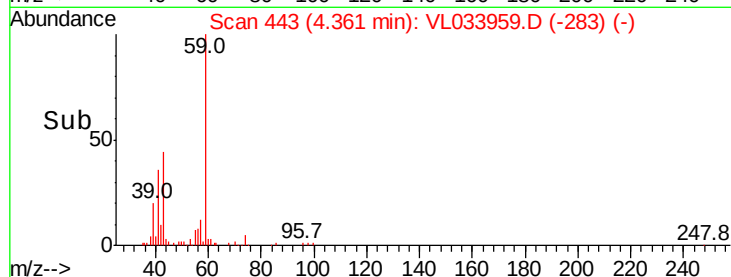
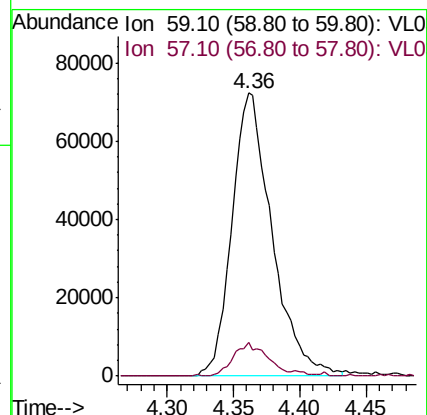
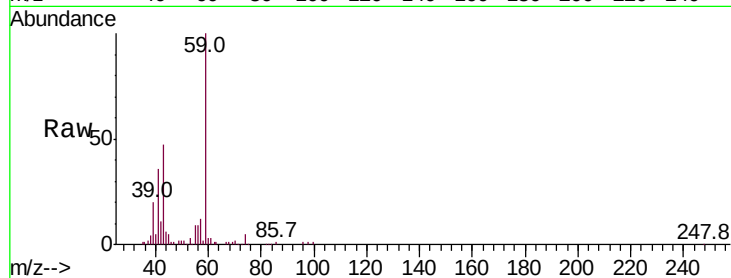


#17

tert-Butyl alcohol
Concen: 1.623 ppbv
RT: 4.36 min Scan# 443
Delta R.T. 0.02 min
Lab File: VL033959.D
Acq: 25 Jun 2019 5:55

Instrument :
MSVOA_L
ClientSampleId :
INFLUENT

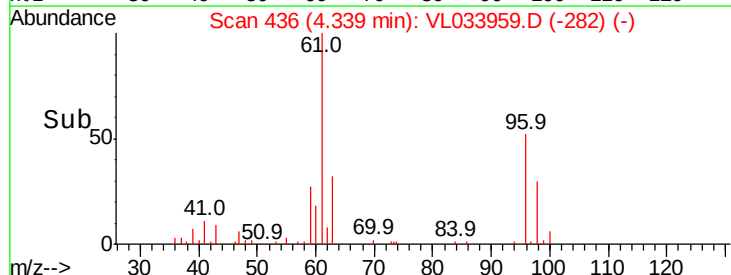
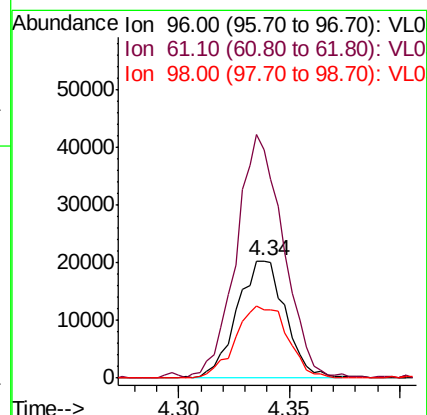
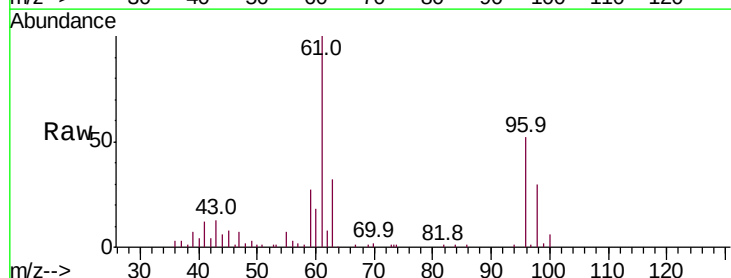
Tot Ion: 59 Resp: 151960
Ion Ratio Lower Upper
59 100
57 11.0 8.4 12.6

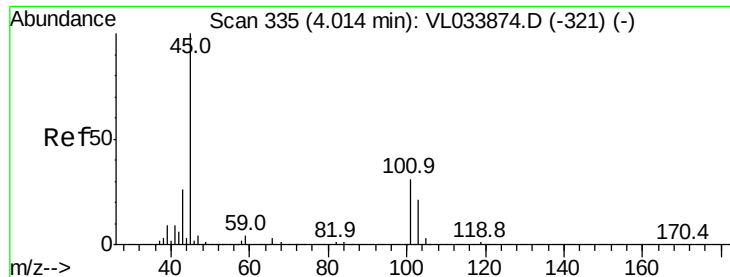


#18

1,1-Dichloroethene
Concen: 0.613 ppbv
RT: 4.34 min Scan# 436
Delta R.T. -0.00 min
Lab File: VL033959.D
Acq: 25 Jun 2019 5:55

Tgt Ion: 96 Resp: 30111
Ion Ratio Lower Upper
96 100
61 192.5 147.0 220.6
98 58.4 49.4 74.0





#19

Isopropyl Alcohol

Concen: 31.177 ppbv

RT: 4.03 min Scan# 339

Delta R.T. 0.01 min

Lab File: VL033959.D

Acq: 25 Jun 2019 5:55

Instrument :

MSVOA_L

ClientSampleId :

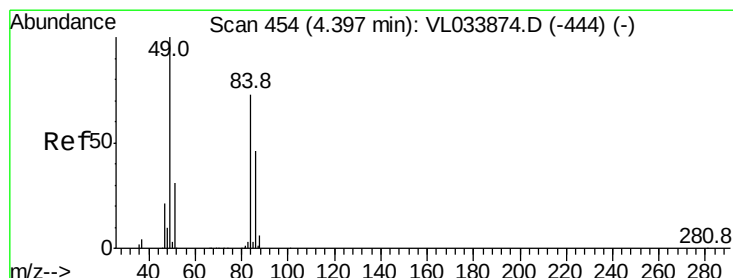
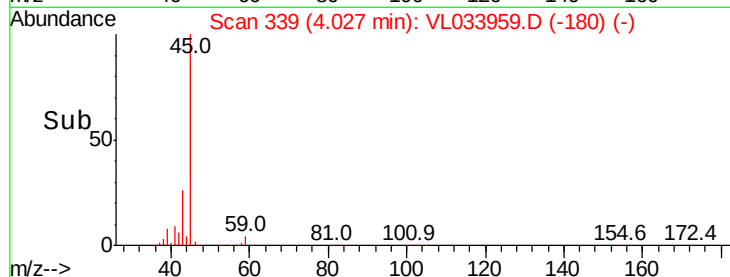
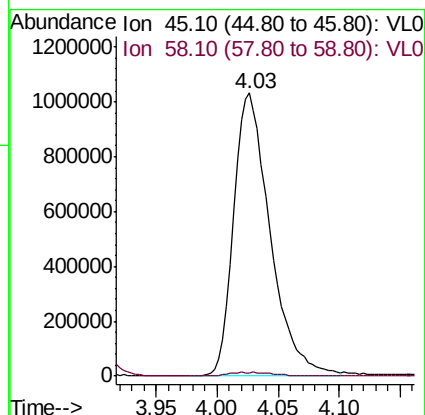
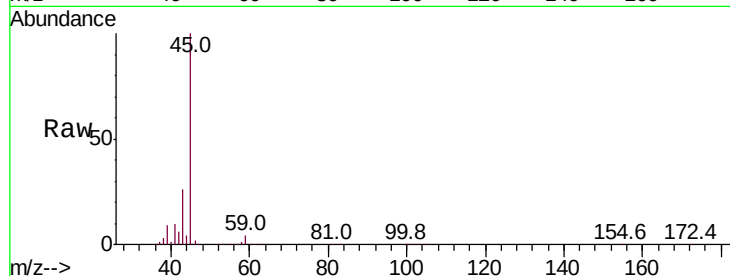
INFLUENT

Tot Ion: 45 Resp: 2133825

Ion Ratio Lower Upper

45 100

58 1.9 1.8 2.6



#20

Methylene Chloride

Concen: 3.624 ppbv

RT: 4.40 min Scan# 454

Delta R.T. -0.00 min

Lab File: VL033959.D

Acq: 25 Jun 2019 5:55

Tgt Ion: 84 Resp: 169299

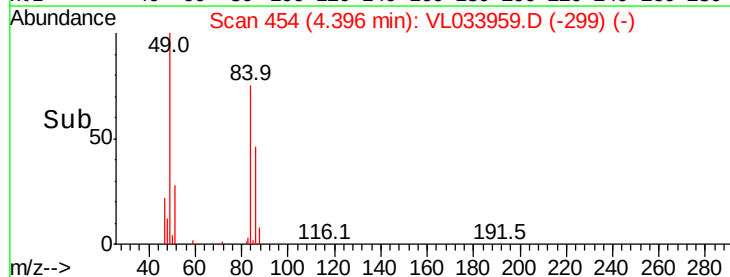
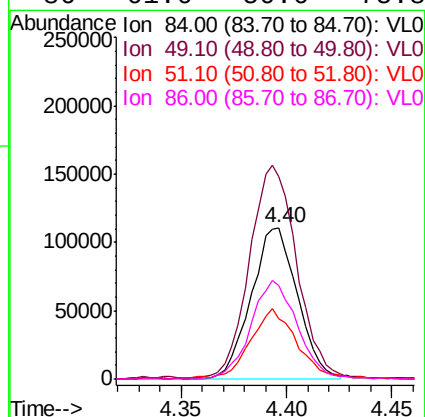
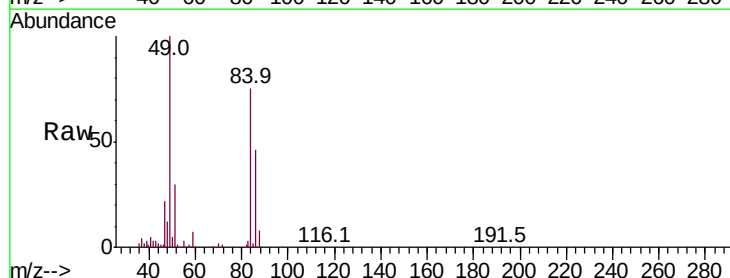
Ion Ratio Lower Upper

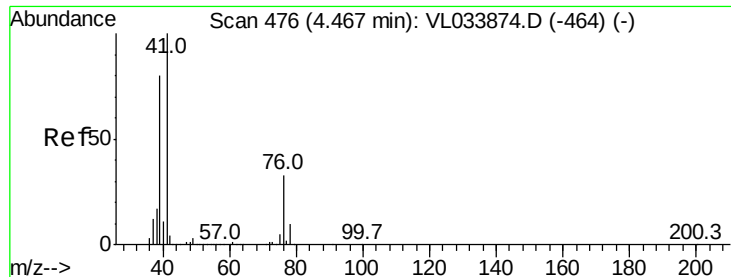
84 100

49 132.3 110.0 165.0

51 39.1 34.6 51.8

86 61.6 50.6 75.8

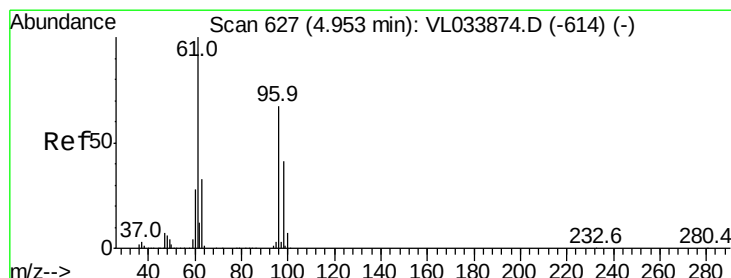
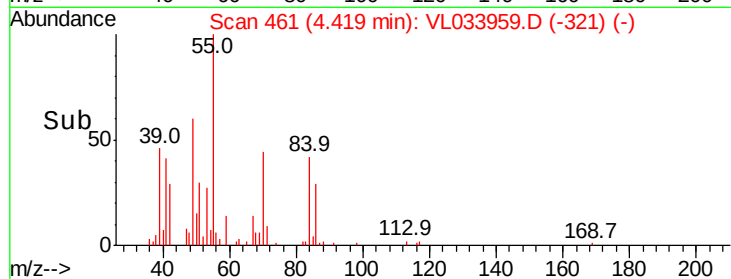
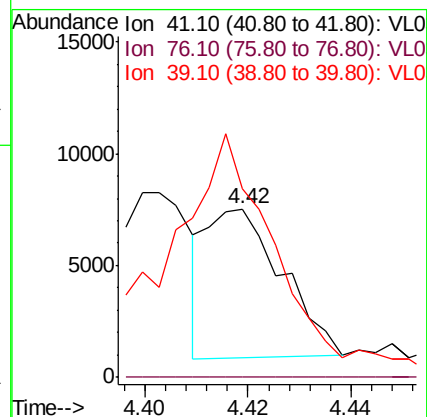
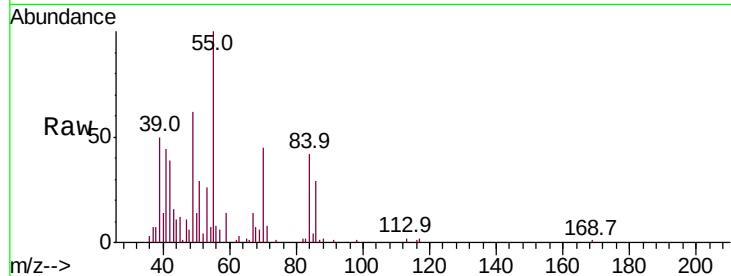




#21
Allvl Chloride
Concen: 0.098 ppbv
RT: 4.42 min Scan# 461
Delta R.T. -0.05 min
Lab File: VL033959.D
Acq: 25 Jun 2019 5:55

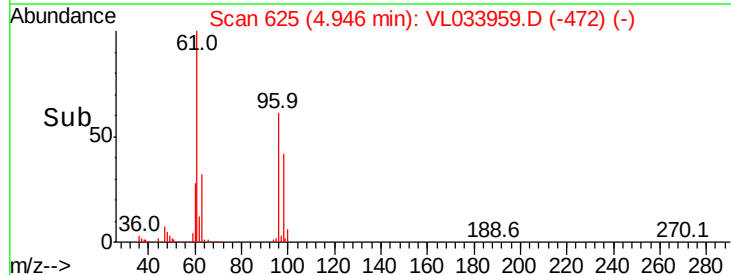
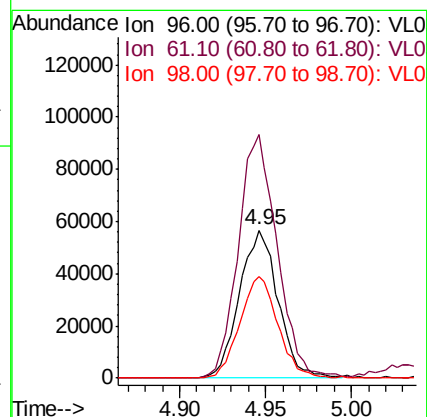
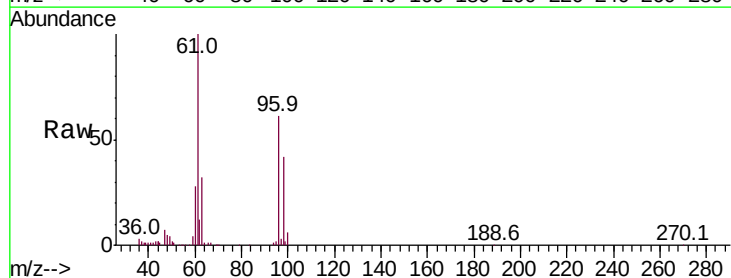
Instrument :
MSVOA_L
ClientSampleId :
INFLUENT

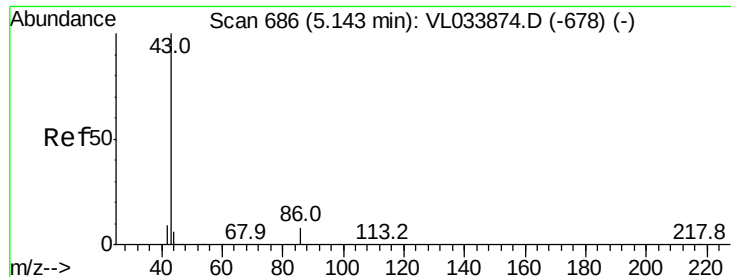
Tot Ion: 41 Resp: 6688
Ion Ratio Lower Upper
41 100
76 0.0 26.6 39.8#
39 193.6 65.2 97.8#



#22
trans-1,2-Dichloroethene
Concen: 1.710 ppbv
RT: 4.95 min Scan# 625
Delta R.T. -0.01 min
Lab File: VL033959.D
Acq: 25 Jun 2019 5:55

Tgt Ion: 96 Resp: 88475
Ion Ratio Lower Upper
96 100
61 164.9 119.0 178.6
98 69.1 48.3 72.5





#23

Vinyl Acetate

Concen: 1.489 ppbv

RT: 5.13 min Scan# 681

Delta R.T. -0.02 min

Lab File: VL033959.D

Acq: 25 Jun 2019 5:55

Instrument :

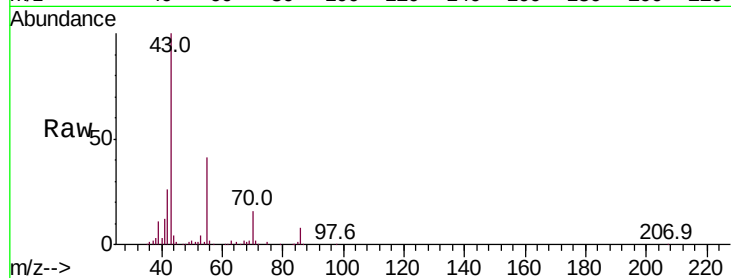
MSVOA_L

ClientSampleId :

INFLUENT

Tot Ion: 43 Resp: 207387

Ion	Ratio	Lower	Upper
43	100		
86	7.8	5.8	8.8
42	26.0	7.8	11.8#
44	2.7	4.2	6.4#

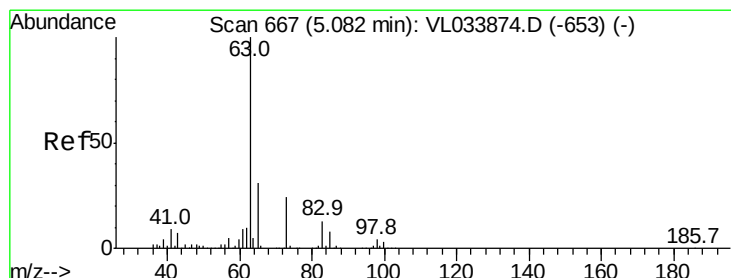
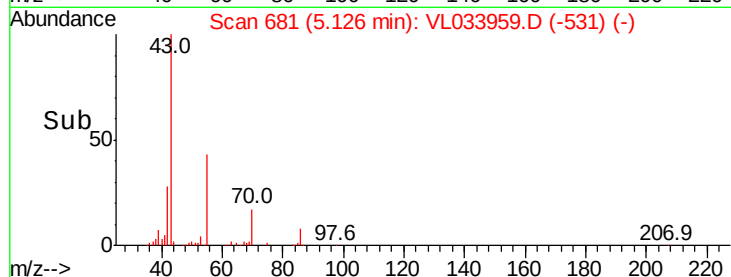
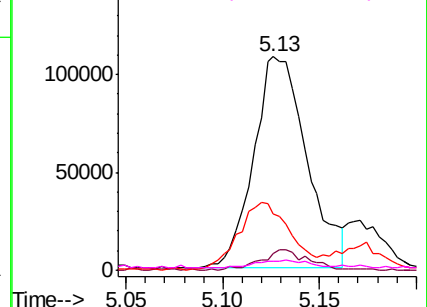


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 6.976 ppbv

RT: 5.07 min Scan# 664

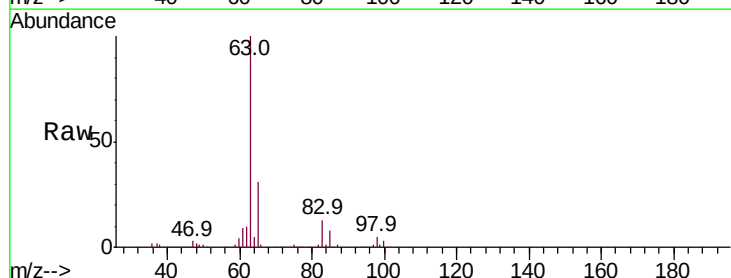
Delta R.T. -0.01 min

Lab File: VL033959.D

Acq: 25 Jun 2019 5:55

Tgt Ion: 63 Resp: 755534

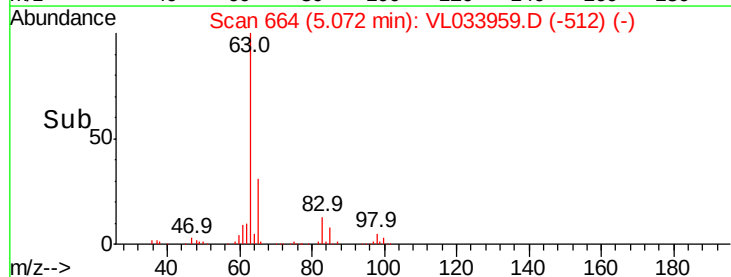
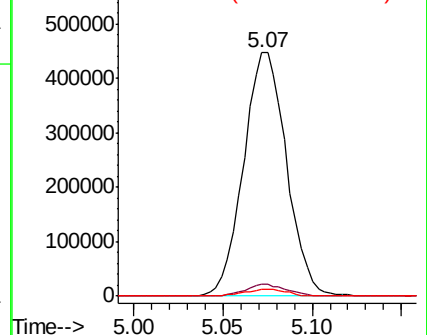
Ion	Ratio	Lower	Upper
63	100		
98	4.7	2.2	6.6
100	3.1	1.3	3.8

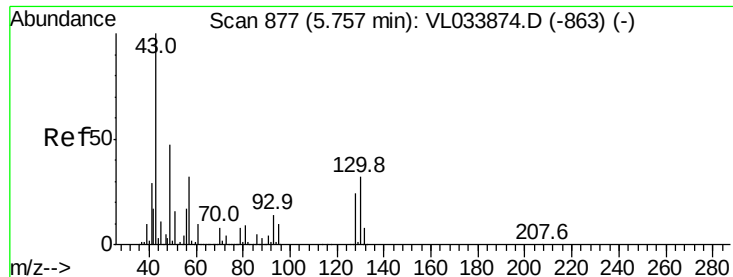


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 98.00 (97.70 to 98.70): VL0

Ion 100.00 (99.70 to 100.70): VL0





#25

Ethyl Acetate

Concen: 0.767 ppbv

RT: 5.76 min Scan# 878

Delta R.T. 0.00 min

Lab File: VL033959.D

Acq: 25 Jun 2019 5:55

Instrument :

MSVOA_L

ClientSampleId :

INFLUENT

Tot Ion: 43 Resp: 139874

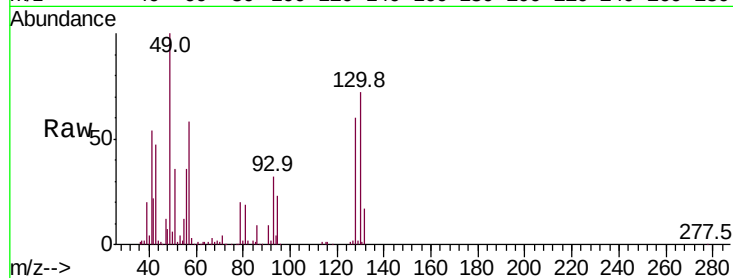
Ion Ratio Lower Upper

43 100

45 5.0 7.9 11.9#

61 3.0 7.8 11.6#

70 3.7 5.8 8.6#

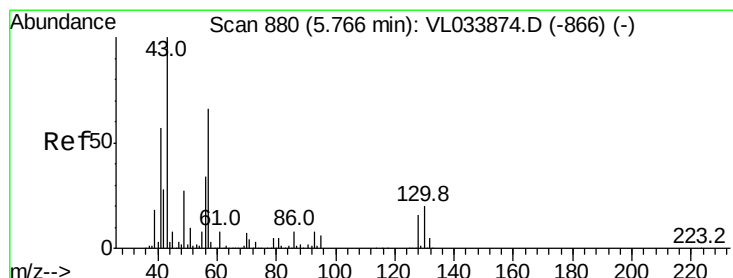
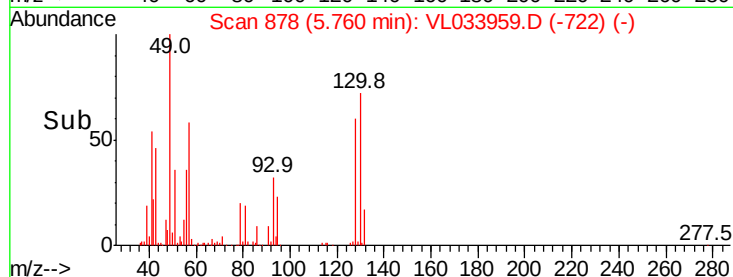
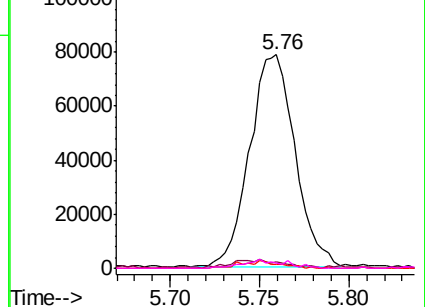


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 1.928 ppbv

RT: 5.76 min Scan# 879

Delta R.T. -0.00 min

Lab File: VL033959.D

Acq: 25 Jun 2019 5:55

Tgt Ion: 57 Resp: 160189

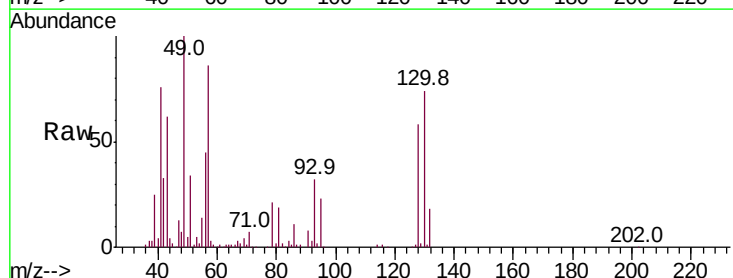
Ion Ratio Lower Upper

57 100

41 103.6 71.4 107.2

43 89.2 183.7 275.5#

56 58.5 42.7 64.1

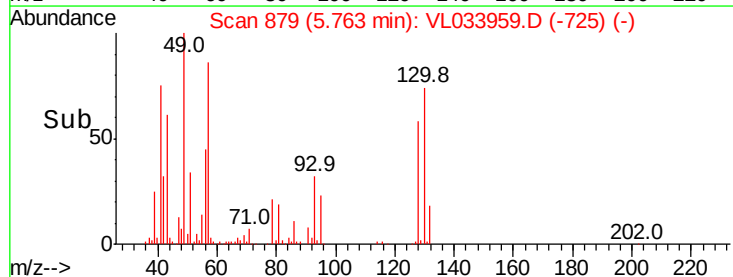
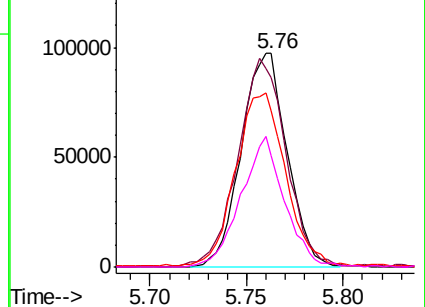


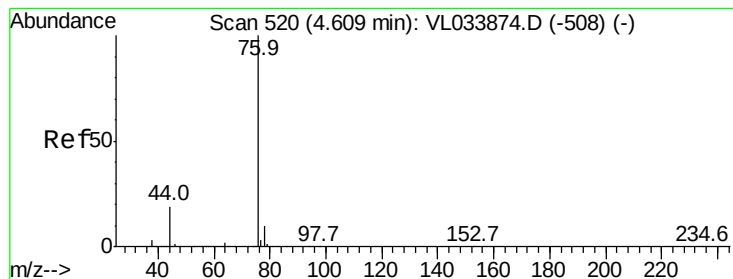
Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 0.033 ppbv

RT: 4.61 min Scan# 519

Delta R.T. -0.00 min

Lab File: VL033959.D

Acq: 25 Jun 2019 5:55

Instrument :

MSVOA_L

ClientSampleId :

INFLUENT

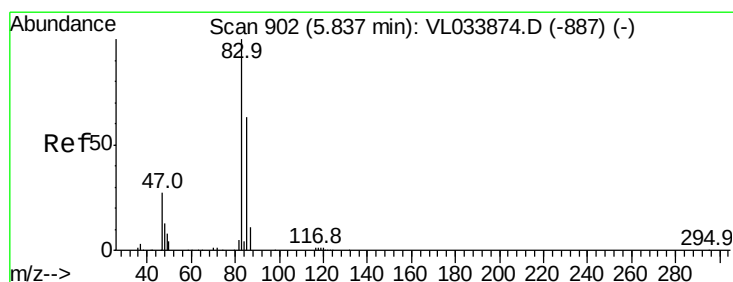
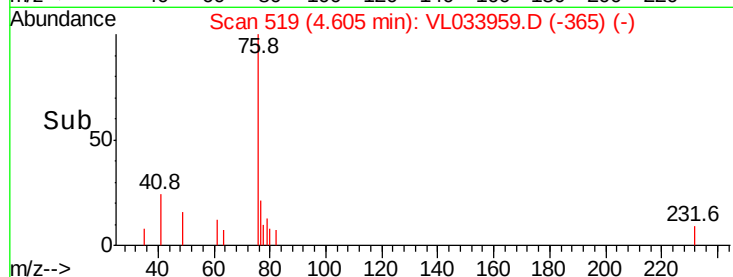
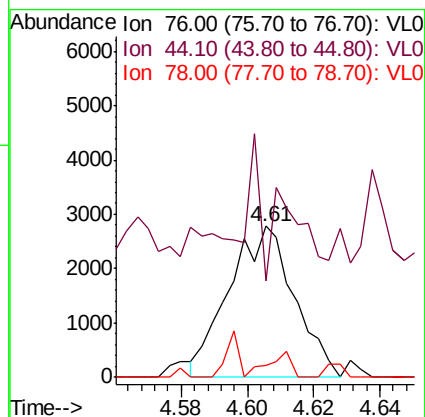
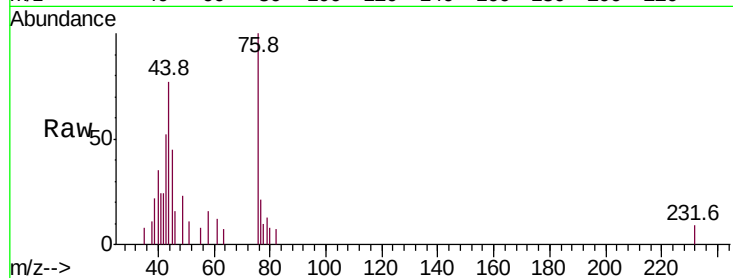
Tot Ion: 76 Resp: 3807

Ion Ratio Lower Upper

76 100

44 94.8 14.4 21.6#

78 13.9 7.5 11.3#



#29

Chloroform

Concen: 0.110 ppbv

RT: 5.83 min Scan# 899

Delta R.T. -0.01 min

Lab File: VL033959.D

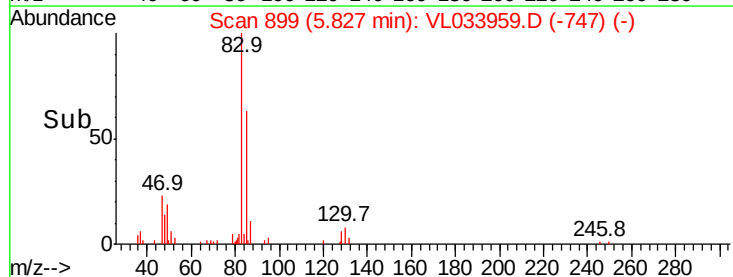
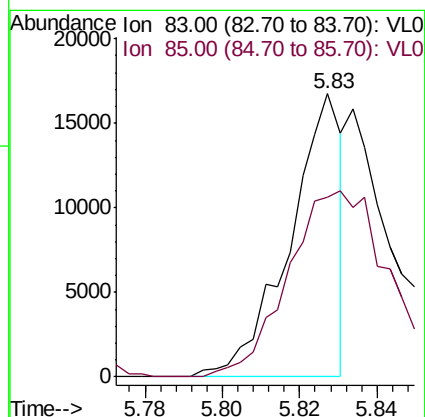
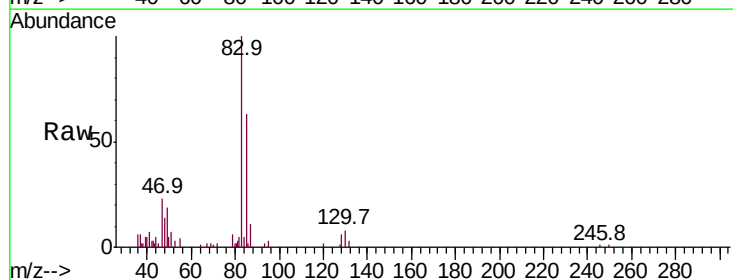
Acq: 25 Jun 2019 5:55

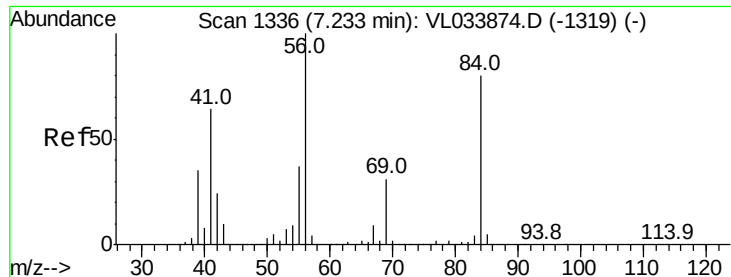
Tgt Ion: 83 Resp: 15663

Ion Ratio Lower Upper

83 100

85 63.3 50.5 75.7

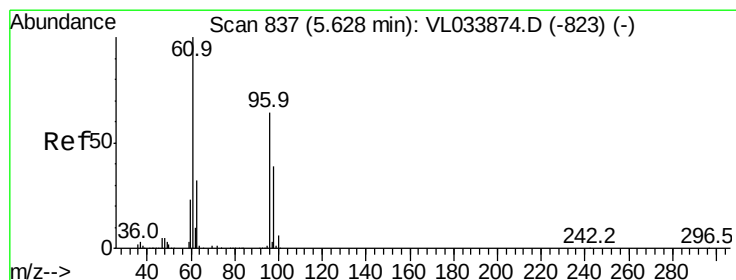
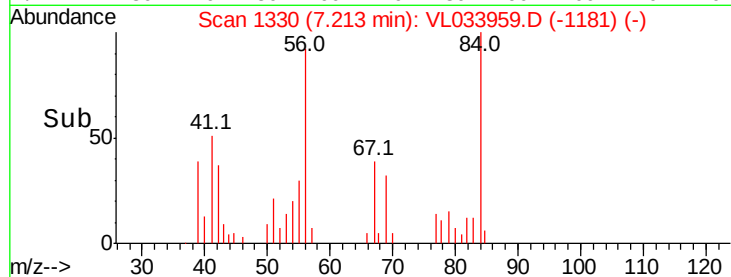
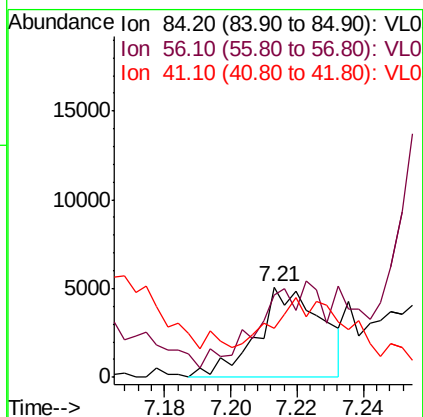
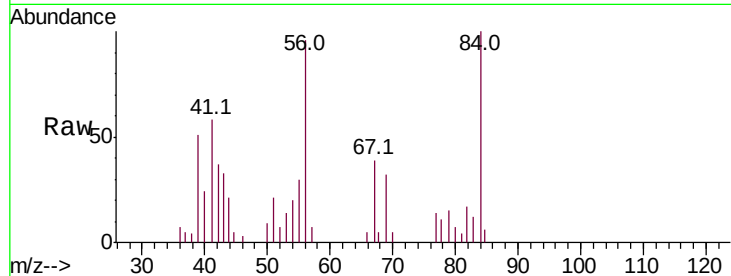




#30
Cyclohexane
Concen: 0.117 ppbv
RT: 7.21 min Scan# 1330
Delta R.T. -0.02 min
Lab File: VL033959.D
Acq: 25 Jun 2019 5:55

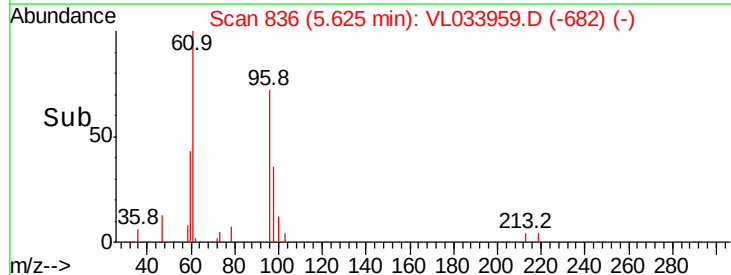
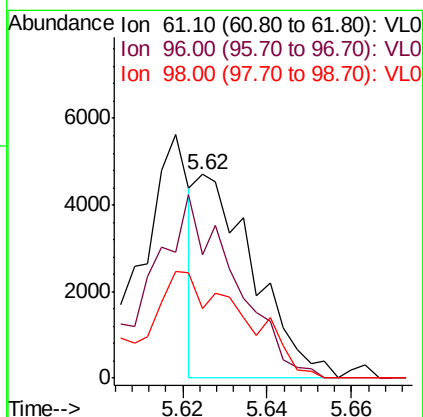
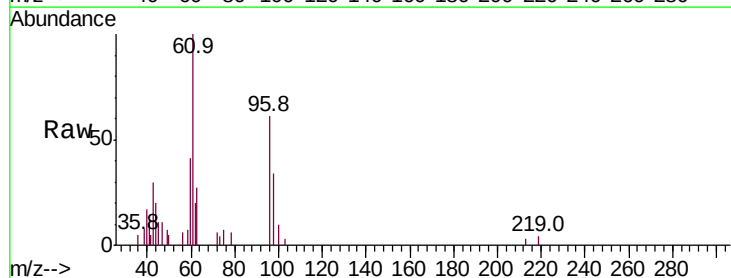
Instrument :
MSVOA_L
ClientSampleId :
INFLUENT

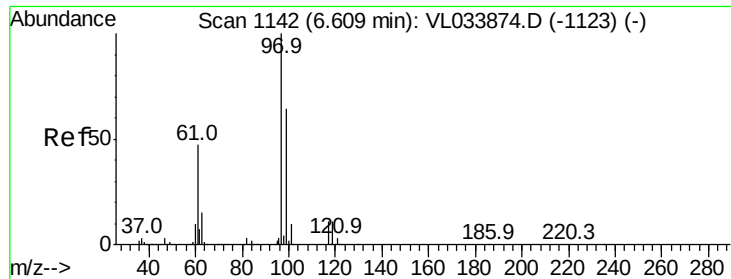
Tot Ion: 84 Resp: 6849
Ion Ratio Lower Upper
84 100
56 0.0 105.8 158.8#
41 150.0 65.7 98.5#



#31
cis-1,2-Dichloroethene
Concen: 0.061 ppbv
RT: 5.62 min Scan# 836
Delta R.T. -0.00 min
Lab File: VL033959.D
Acq: 25 Jun 2019 5:55

Tgt Ion: 61 Resp: 4430
Ion Ratio Lower Upper
61 100
96 60.7 50.9 76.3
98 34.3 31.4 47.2





#32

1,1,1-Trichloroethane

Concen: 31.489 ppbv

RT: 6.60 min Scan# 1138

Delta R.T. -0.01 min

Lab File: VL033959.D

Acq: 25 Jun 2019 5:55

Instrument :

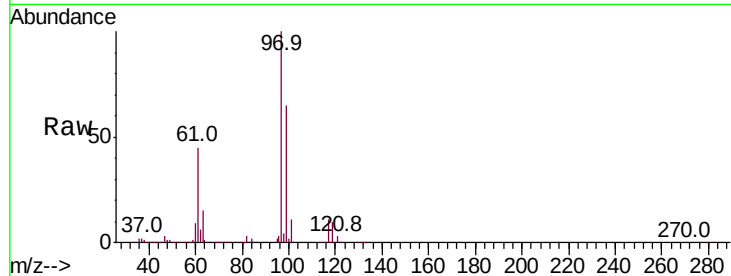
MSVOA_L

ClientSampleId :

INFLUENT

Tot Ion: 97 Resp: 4321830

Ion	Ratio	Lower	Upper
97	100		
99	65.3	51.7	77.5
61	45.8	37.7	56.5

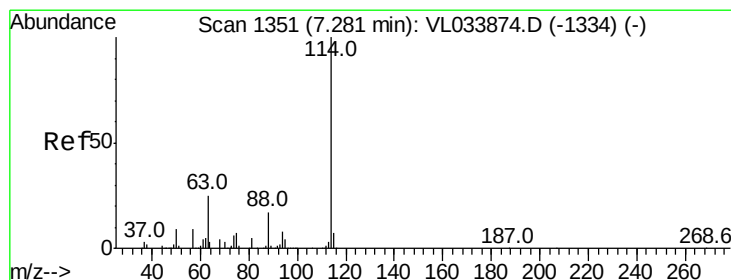
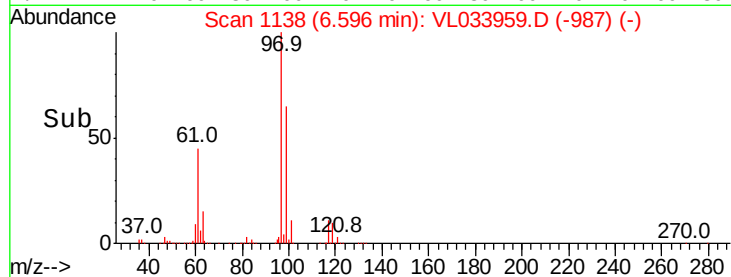
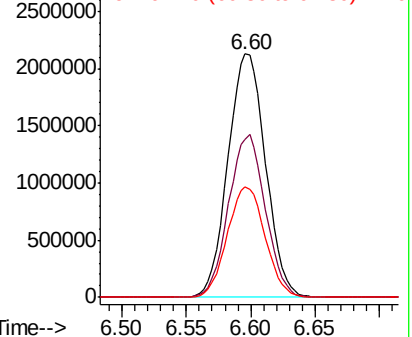


Abundance

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: 7.27 min Scan# 1348

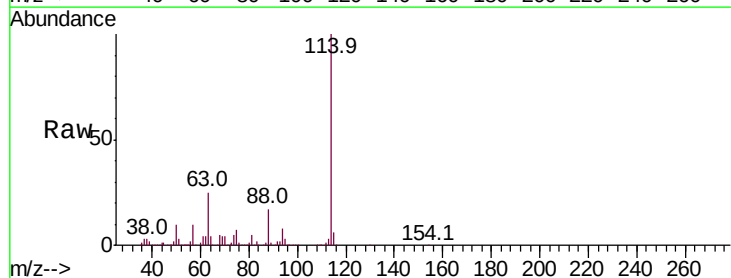
Delta R.T. -0.01 min

Lab File: VL033959.D

Acq: 25 Jun 2019 5:55

Tgt Ion: 114 Resp: 1938588

Ion	Ratio	Lower	Upper
114	100		
63	25.9	21.1	31.7
88	17.6	14.2	21.4

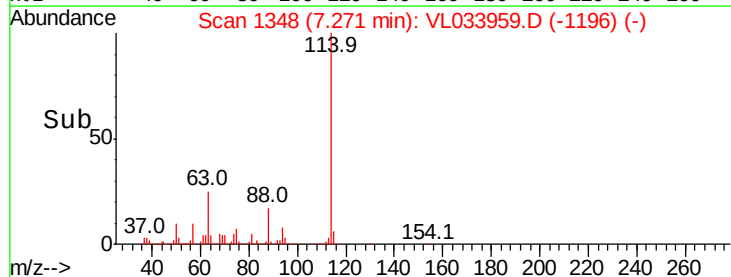
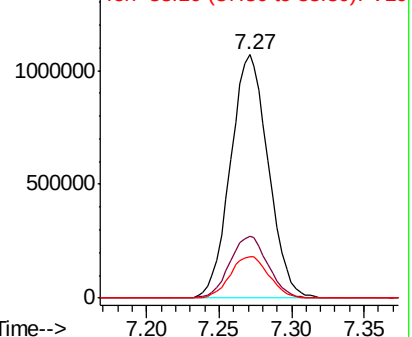


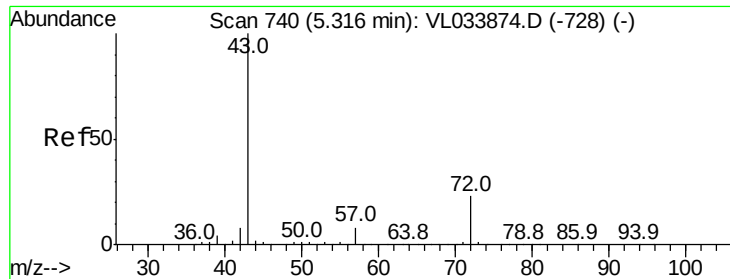
Abundance

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: 4.393 ppbv

RT: 5.31 min Scan# 739

Delta R.T. -0.00 min

Lab File: VL033959.D

Acq: 25 Jun 2019 5:55

Instrument :

MSVOA_L

ClientSampleId :

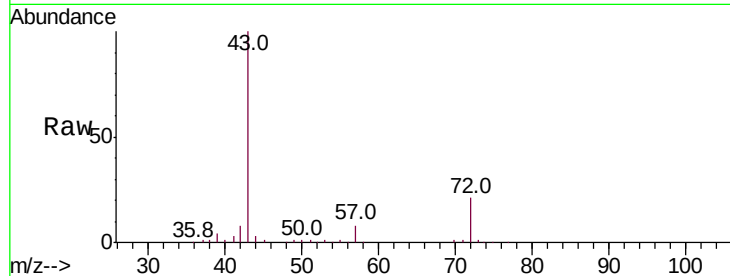
INFLUENT

Tot Ion: 43 Resp: 480473

Ion Ratio Lower Upper

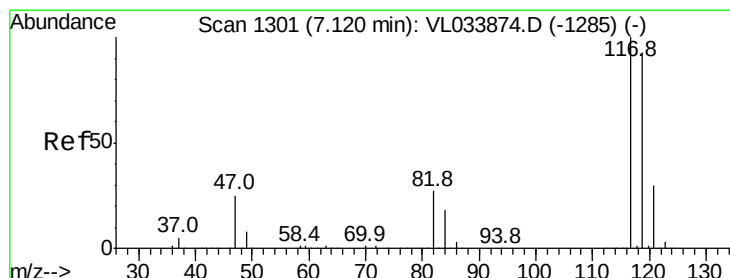
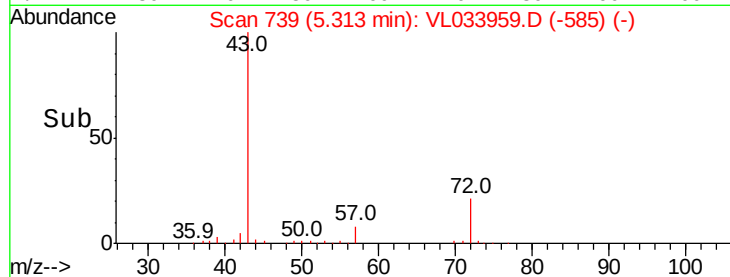
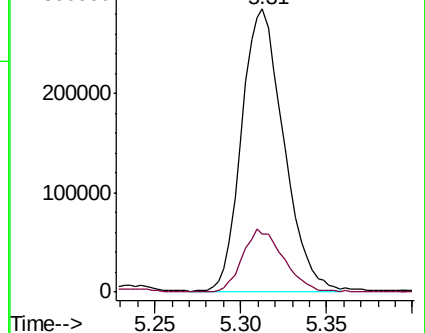
43 100

72 22.1 17.9 26.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#35

Carbon Tetrachloride

Concen: 0.069 ppbv

RT: 7.11 min Scan# 1298

Delta R.T. -0.01 min

Lab File: VL033959.D

Acq: 25 Jun 2019 5:55

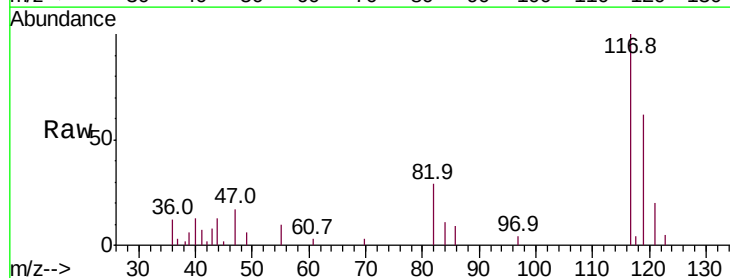
Tgt Ion: 117 Resp: 10394

Ion Ratio Lower Upper

117 100

119 57.8 74.6 111.8#

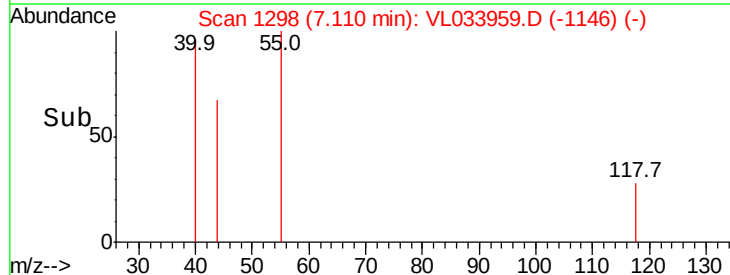
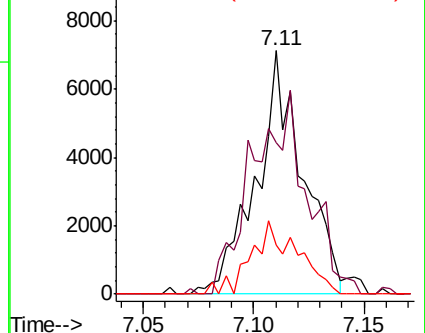
121 19.4 24.0 36.0#

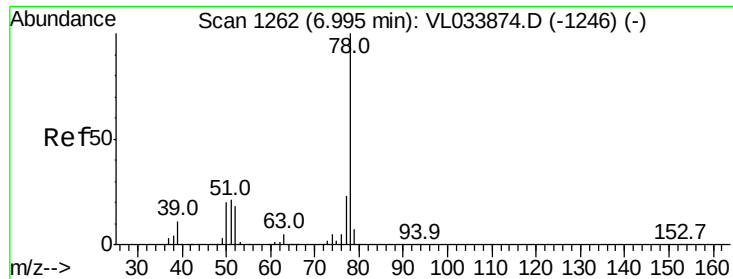


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





#36

Benzene

Concen: 0.094 ppbv

RT: 6.98 min Scan# 1259

Delta R.T. -0.01 min

Lab File: VL033959.D

Acq: 25 Jun 2019 5:55

Instrument :

MSVOA_L

ClientSampleId :

INFLUENT

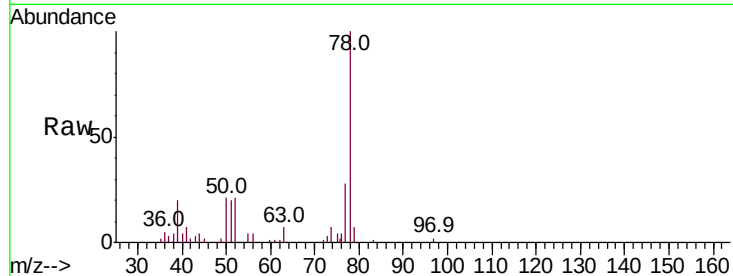
Tot Ion: 78 Resp: 13950

Ion Ratio Lower Upper

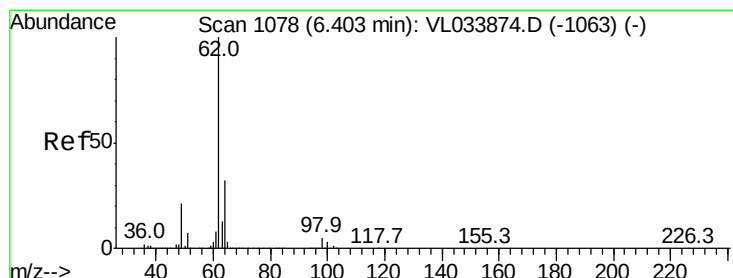
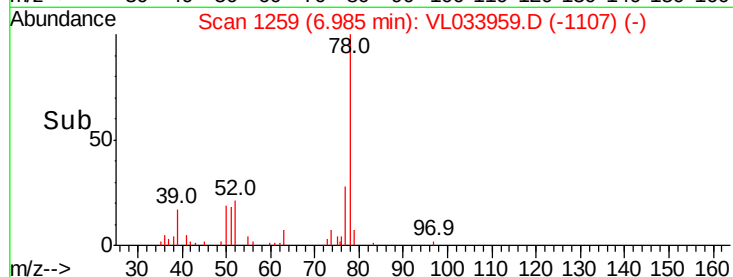
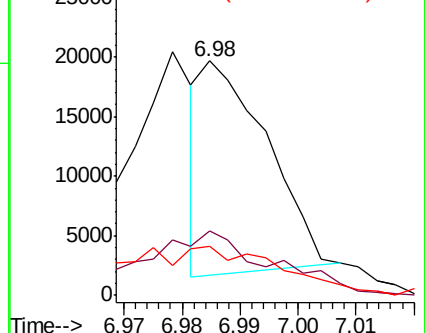
78 100

77 25.9 18.2 27.2

50 19.1 15.9 23.9



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: 2.631 ppbv

RT: 6.59 min Scan# 1137

Delta R.T. 0.19 min

Lab File: VL033959.D

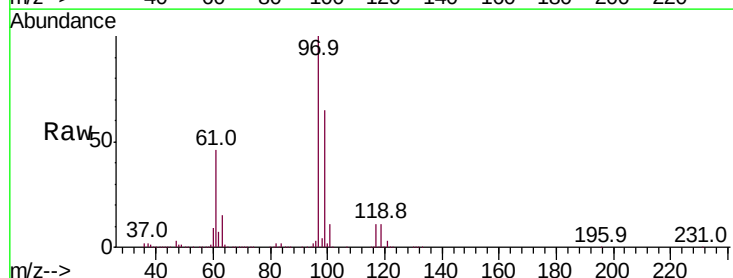
Acq: 25 Jun 2019 5:55

Tgt Ion: 62 Resp: 288136

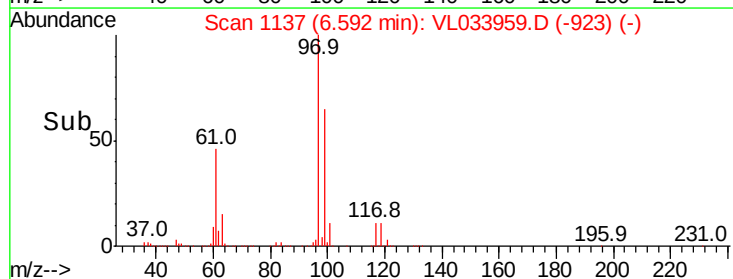
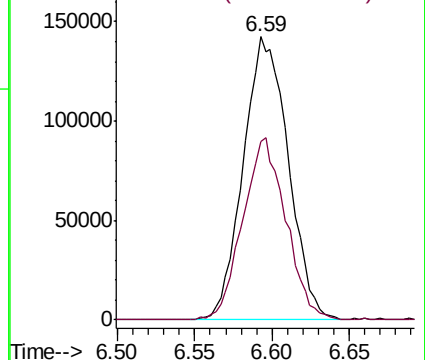
Ion Ratio Lower Upper

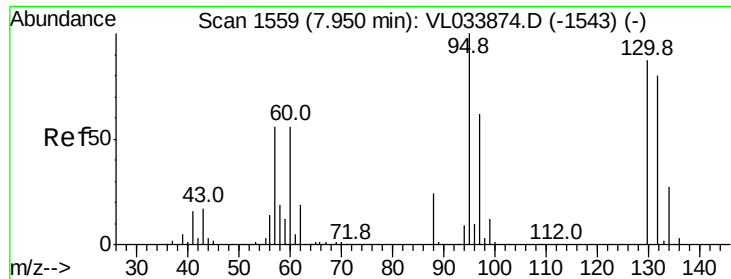
62 100

98 61.6 4.0 6.0#



Abundance Ion 62.10 (61.80 to 62.80): VL0
Ion 98.00 (97.70 to 98.70): VL0





#38

Trichloroethene

Concen: 0.164 ppbv

RT: 7.93 min Scan# 1553

Delta R.T. -0.02 min

Lab File: VL033959.D

Acq: 25 Jun 2019 5:55

Instrument :

MSVOA_L

ClientSampleId :

INFLUENT

Tot Ion:130 Resp: 9446

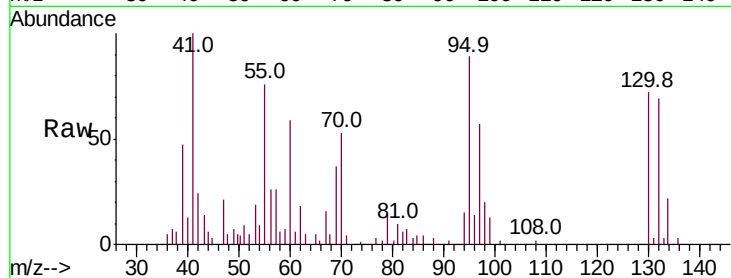
Ion Ratio Lower Upper

130 100

95 121.7 92.0 138.0

132 93.8 73.8 110.8

97 79.6 57.2 85.8

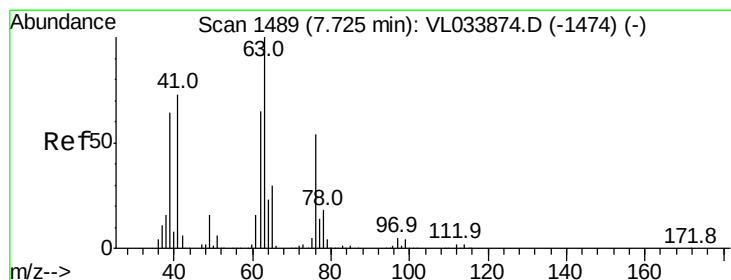
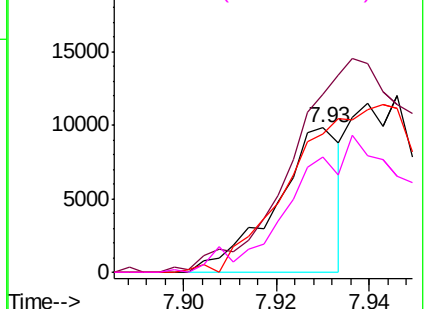
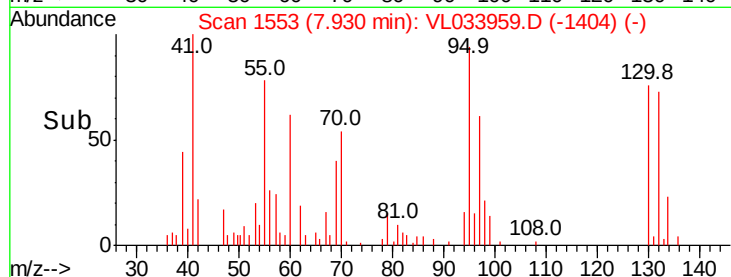


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#39

1,2-Dichloropropane

Concen: 8.714 ppbv

RT: 7.27 min Scan# 1348

Delta R.T. -0.45 min

Lab File: VL033959.D

Acq: 25 Jun 2019 5:55

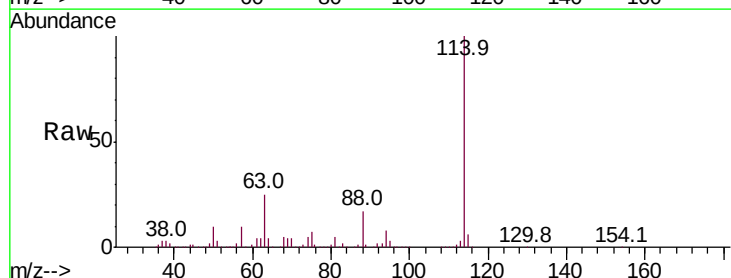
Tgt Ion: 63 Resp: 498060

Ion Ratio Lower Upper

63 100

41 0.0 58.7 88.1#

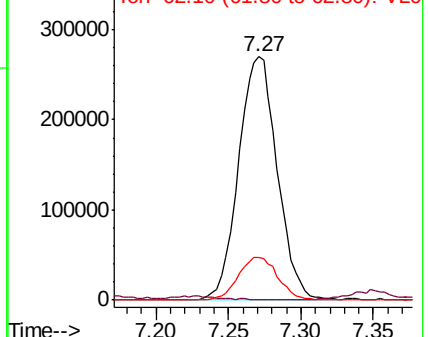
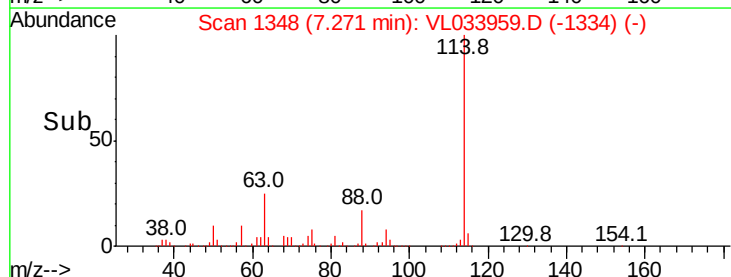
62 17.6 51.9 77.9#

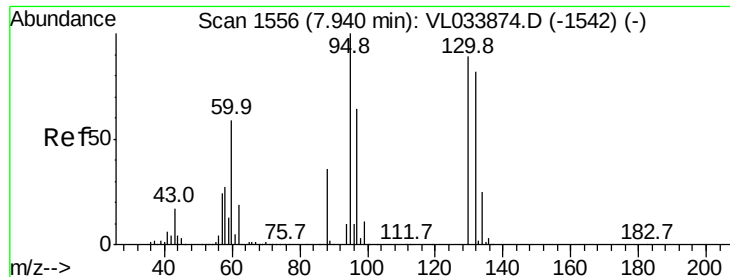


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0

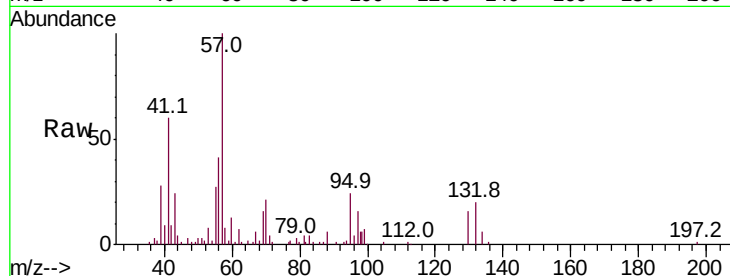




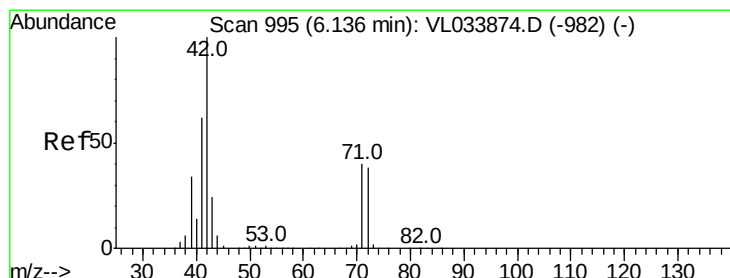
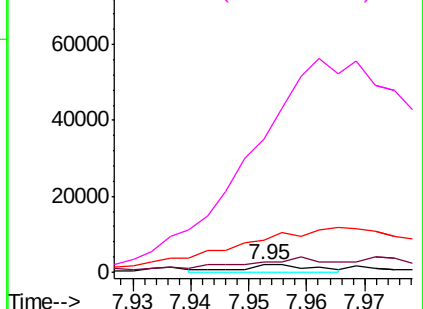
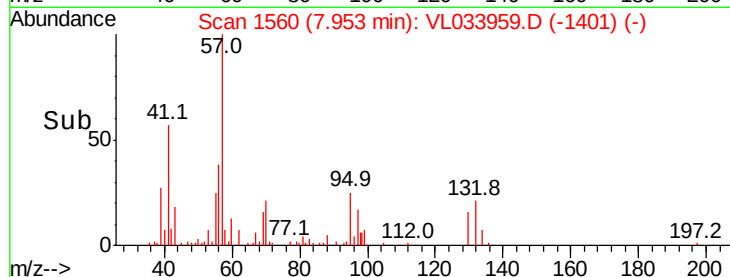
#40
 1,4-Dioxane
 Concen: 0.074 ppbv
 RT: 7.95 min Scan# 1560
 Delta R.T. 0.01 min
 Lab File: VL033959.D
 Acq: 25 Jun 2019 5:55

Instrument :
 MSVOA_L
 ClientSampleId :
 INFLUENT

Tot Ion: 88 Resp: 1734
 Ion Ratio Lower Upper
 88 100
 58 0.0 100.0 150.0#
 43 0.0 184.7 277.1#
 57 0.0 826.8 1240.2#

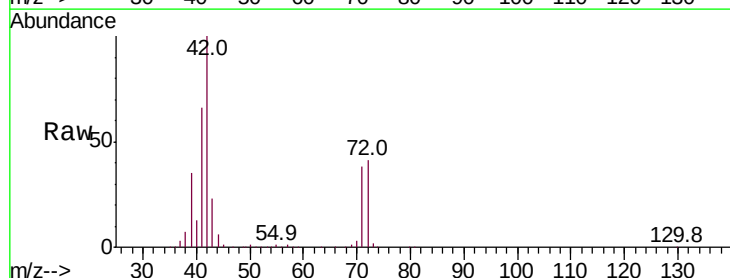


Abundance Ion 88.10 (87.80 to 88.80): VL0
 Ion 58.10 (57.80 to 58.80): VL0
 Ion 43.10 (42.80 to 43.80): VL0
 Ion 57.10 (56.80 to 57.80): VL0

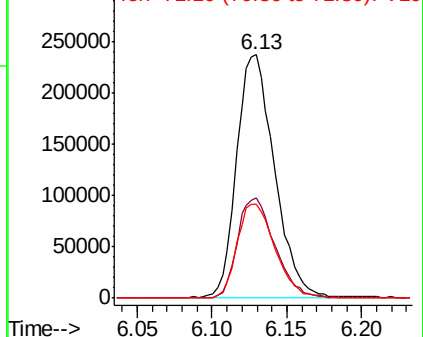
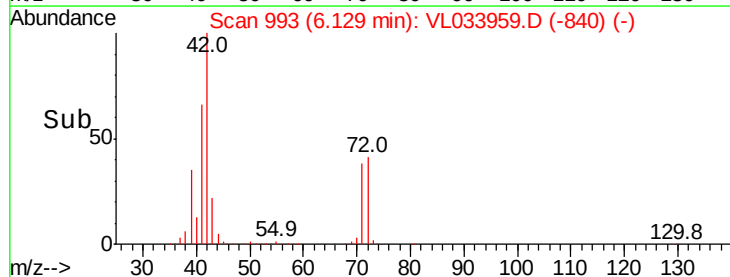


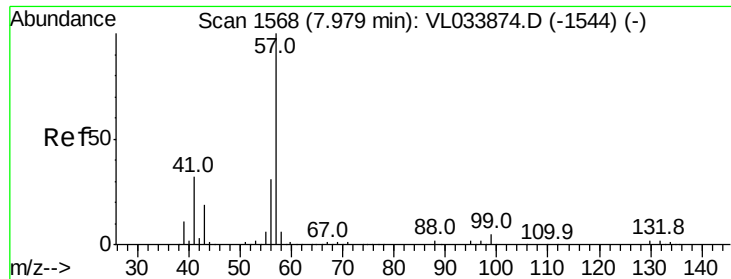
#41
 Tetrahydrofuran
 Concen: 7.544 ppbv
 RT: 6.13 min Scan# 993
 Delta R.T. -0.01 min
 Lab File: VL033959.D
 Acq: 25 Jun 2019 5:55

Tgt Ion: 42 Resp: 418762
 Ion Ratio Lower Upper
 42 100
 72 40.8 32.2 48.4
 71 38.7 31.7 47.5



Abundance Ion 42.10 (41.80 to 42.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0
 Ion 71.10 (70.80 to 71.80): VL0

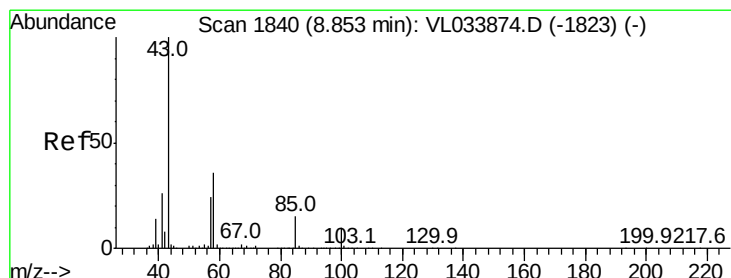
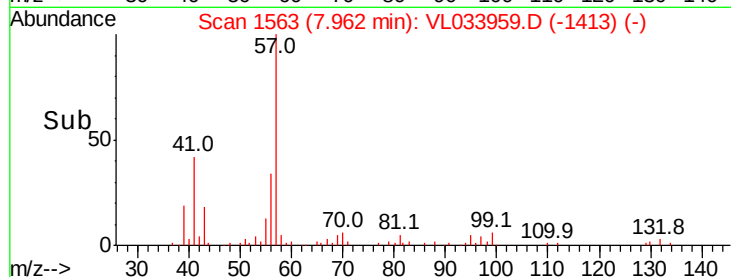
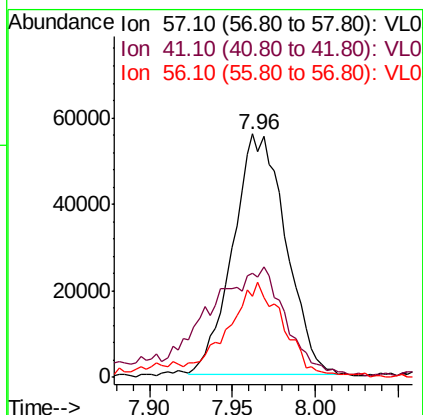
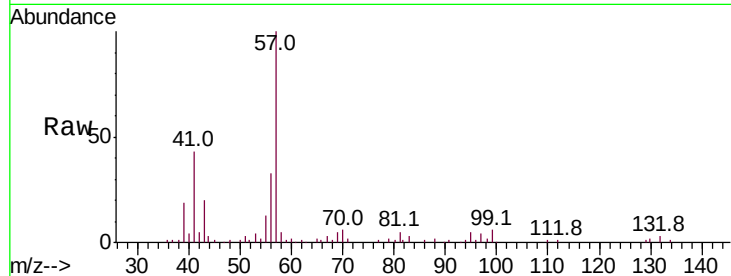




#44
 2,2,4-Trimethylpentane
 Concen: 0.468 ppbv
 RT: 7.96 min Scan# 1563
 Delta R.T. -0.02 min
 Lab File: VL033959.D
 Acq: 25 Jun 2019 5:55

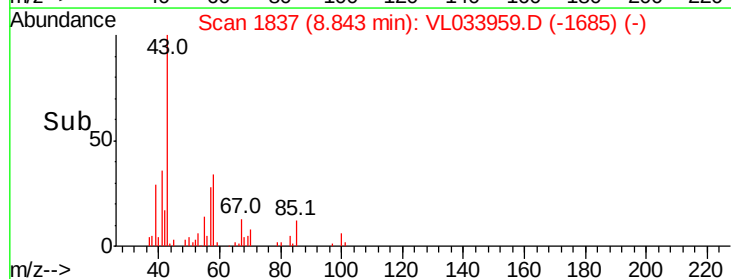
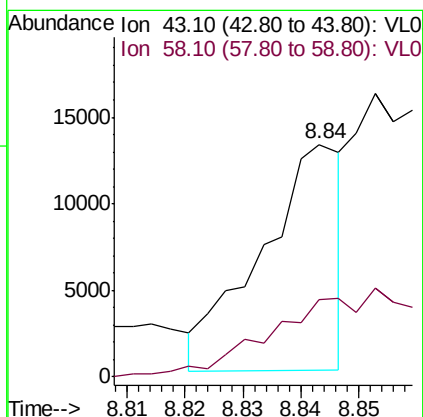
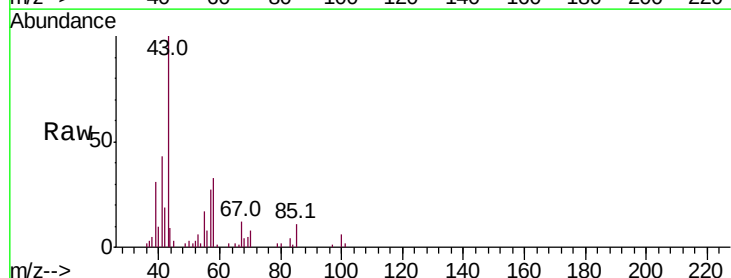
Instrument :
 MSVOA_L
 ClientSampleId :
 INFLUENT

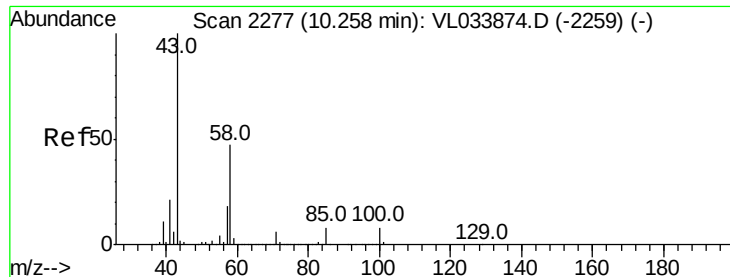
Tot Ion: 57 Resp: 123123
 Ion Ratio Lower Upper
 57 100
 41 70.4 26.1 39.1#
 56 48.7 24.6 36.8#



#50
 4-Methyl-2-Pentanone
 Concen: 0.078 ppbv
 RT: 8.84 min Scan# 1837
 Delta R.T. -0.01 min
 Lab File: VL033959.D
 Acq: 25 Jun 2019 5:55

Tgt Ion: 43 Resp: 12682
 Ion Ratio Lower Upper
 43 100
 58 0.0 28.6 42.8#





#51

2-Hexanone

Concen: 0.058 ppbv

RT: 10.25 min Scan# 2273

Delta R.T. -0.01 min

Lab File: VL033959.D

Acq: 25 Jun 2019 5:55

Instrument :

MSVOA_L

ClientSampleId :

INFLUENT

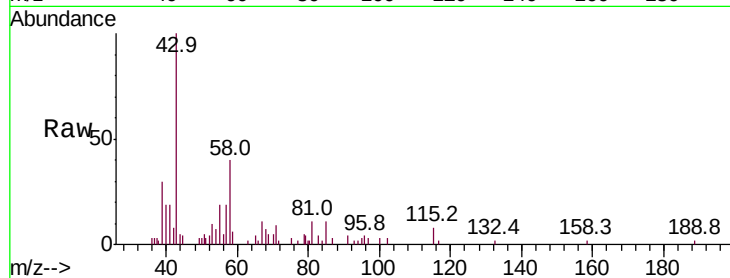
Tot Ion: 43 Resp: 7338

Ion Ratio Lower Upper

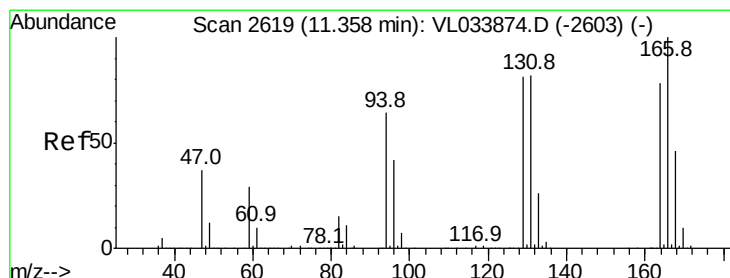
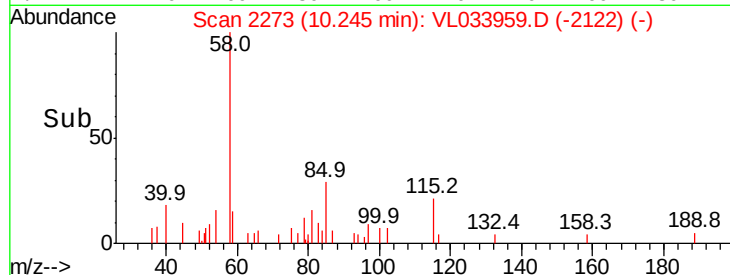
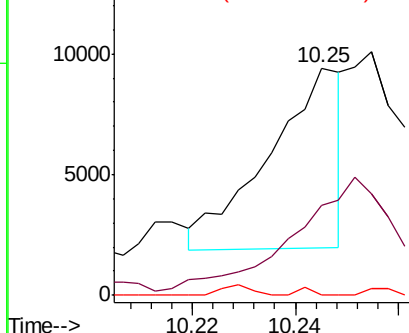
43 100

58 0.0 38.2 57.4#

98 3.4 0.2 0.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0



#52

Tetrachloroethene

Concen: 0.076 ppbv

RT: 11.34 min Scan# 2613

Delta R.T. -0.02 min

Lab File: VL033959.D

Acq: 25 Jun 2019 5:55

Tgt Ion: 164 Resp: 3962

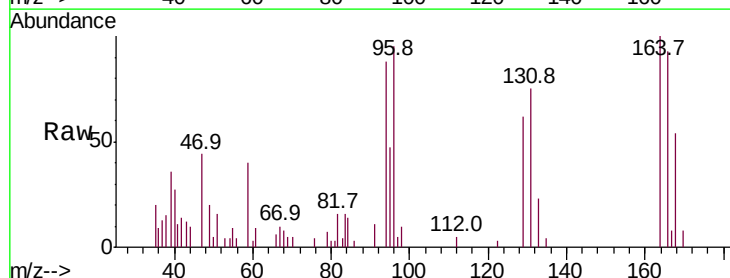
Ion Ratio Lower Upper

164 100

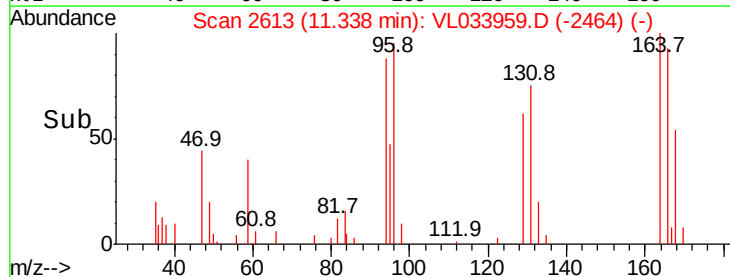
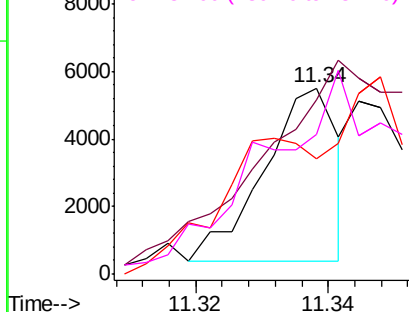
166 69.9 103.1 154.7#

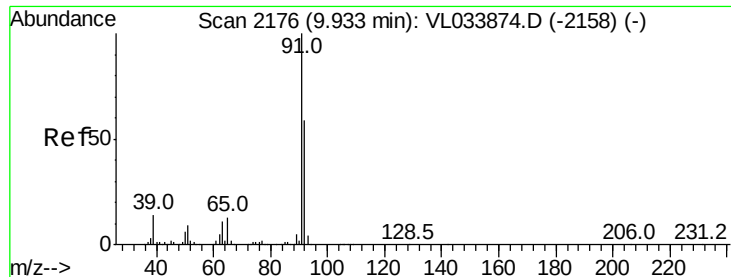
129 36.8 83.9 125.9#

131 51.4 85.1 127.7#



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: 3.505 ppbv

RT: 9.92 min Scan# 2172

Delta R.T. -0.01 min

Lab File: VL033959.D

Acq: 25 Jun 2019 5:55

Instrument :

MSVOA_L

ClientSampleId :

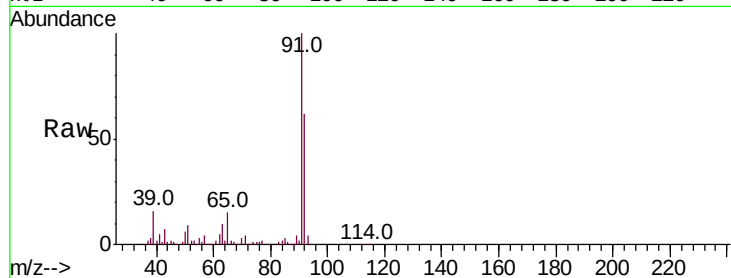
INFLUENT

Tot Ion: 91 Resp: 574324

Ion Ratio Lower Upper

91 100

92 59.6 47.0 70.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

300000

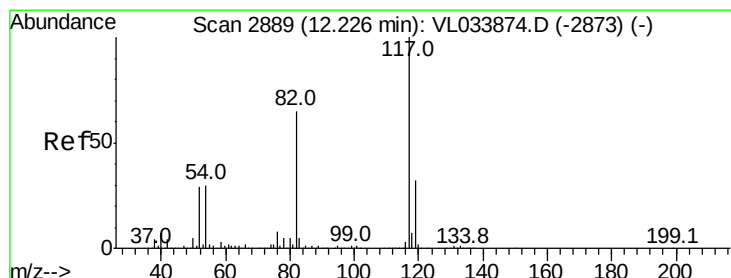
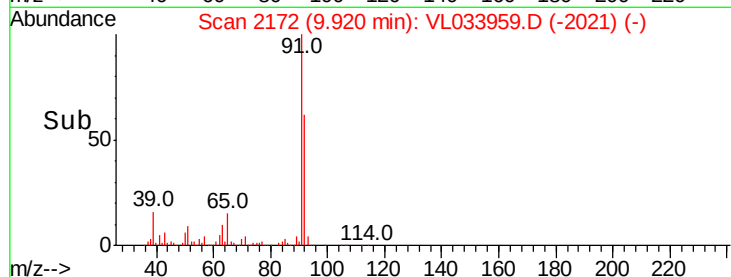
200000

100000

0

9.90 9.92 10.00

Time-->



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.21 min Scan# 2884

Delta R.T. -0.02 min

Lab File: VL033959.D

Acq: 25 Jun 2019 5:55

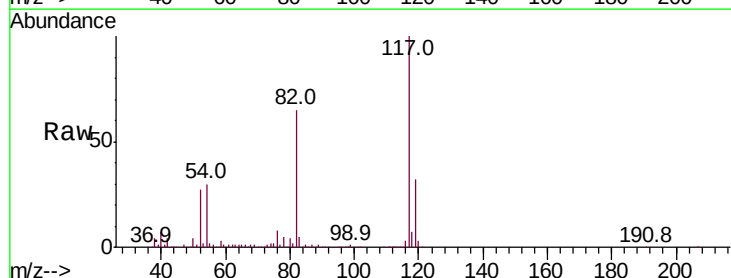
Tgt Ion: 117 Resp: 2405819

Ion Ratio Lower Upper

117 100

82 65.3 50.2 75.2

119 32.9 24.8 37.2



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

1500000

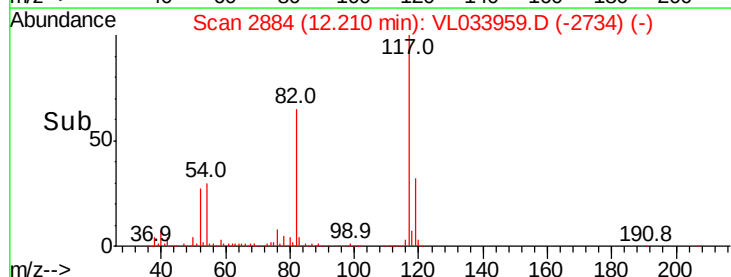
1000000

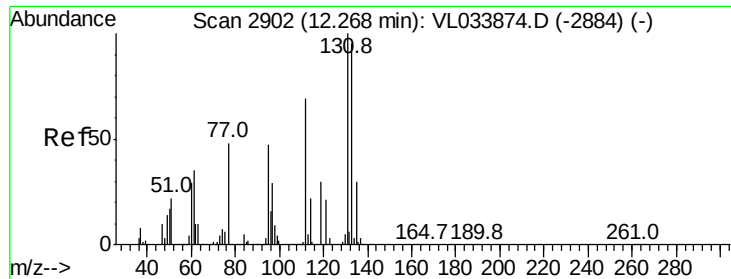
500000

0

12.10 12.21 12.30

Time-->





#56

1,1,1,2-Tetrachloroethane

Concen: 2.090 ppbv

RT: 11.83 min Scan# 2765

Delta R.T. -0.44 min

Lab File: VL033959.D

Acq: 25 Jun 2019 5:55

Instrument :

MSVOA_L

ClientSampleId :

INFLUENT

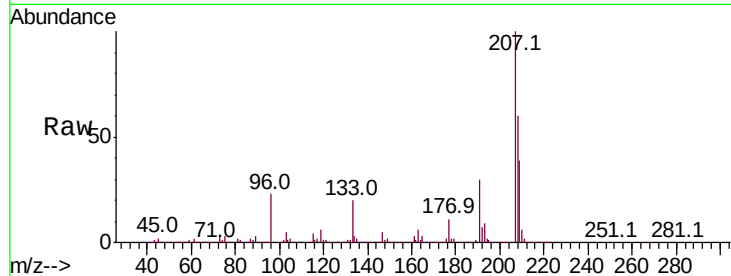
Tot Ion:131 Resp: 219704

Ion Ratio Lower Upper

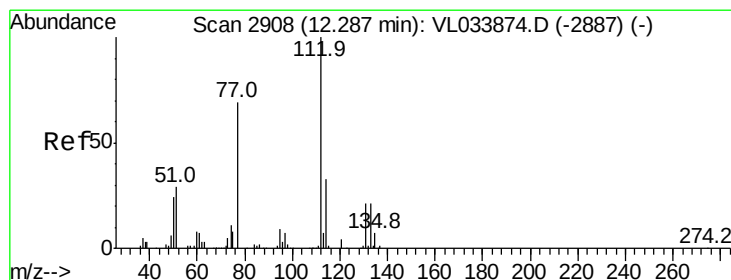
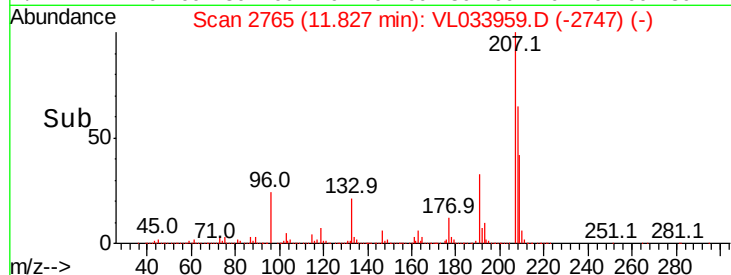
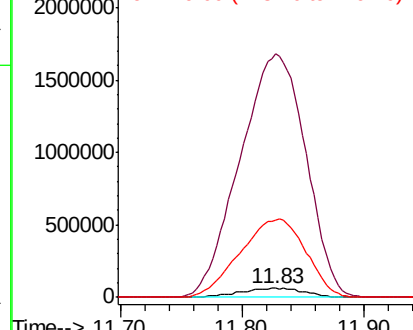
131 100

133 2813.1 76.5 114.7#

119 907.4 42.6 64.0#



Abundance Ion 131.00 (130.70 to 131.70): V
Ion 133.00 (132.70 to 133.70): V
Ion 119.00 (118.70 to 119.70): V



#57

Chlorobenzene

Concen: 0.060 ppbv

RT: 12.27 min Scan# 2904

Delta R.T. -0.01 min

Lab File: VL033959.D

Acq: 25 Jun 2019 5:55

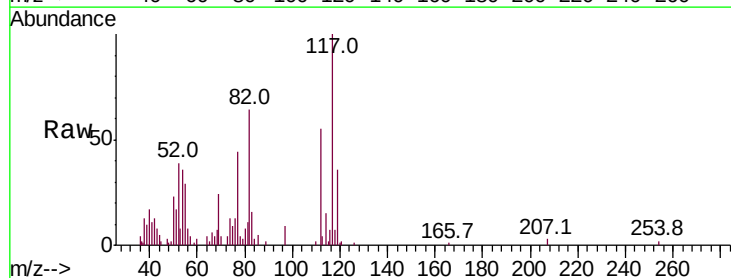
Tgt Ion:112 Resp: 10770

Ion Ratio Lower Upper

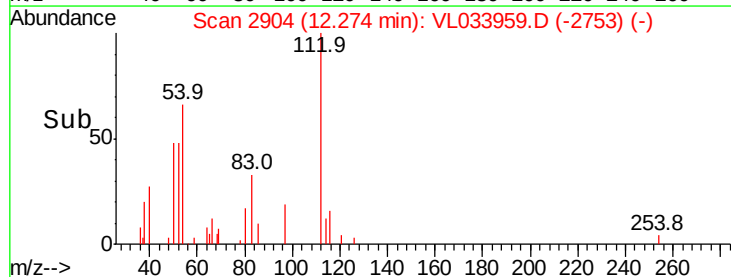
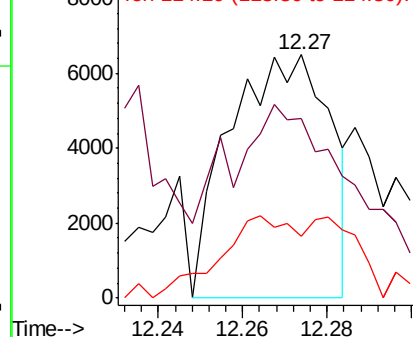
112 100

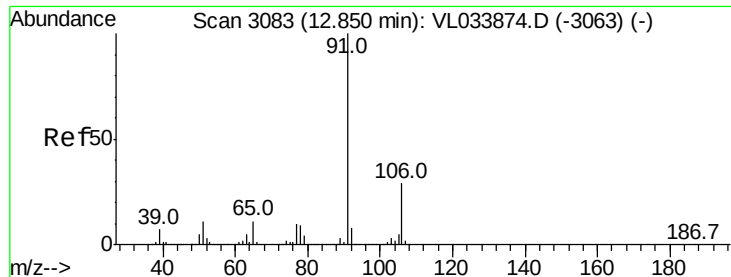
77 43.3 55.8 83.6#

114 15.1 29.8 36.4#



Abundance Ion 112.10 (111.80 to 112.80): V
Ion 77.10 (76.80 to 77.80): V
Ion 114.10 (113.80 to 114.80): V

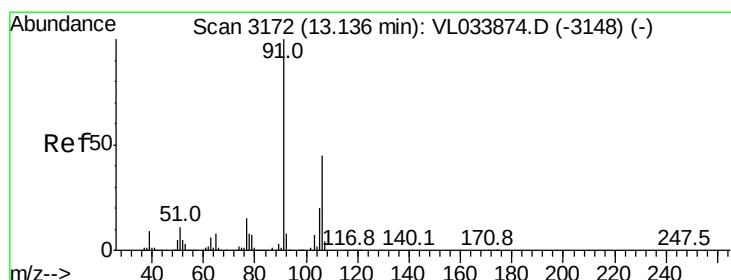
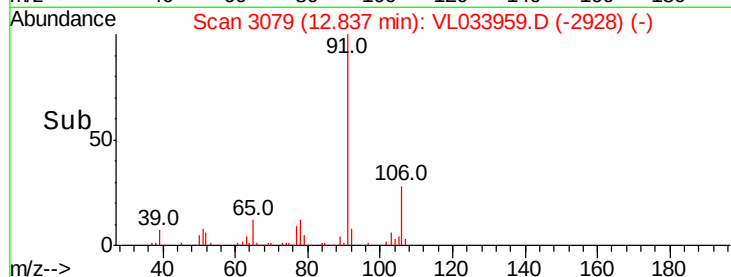
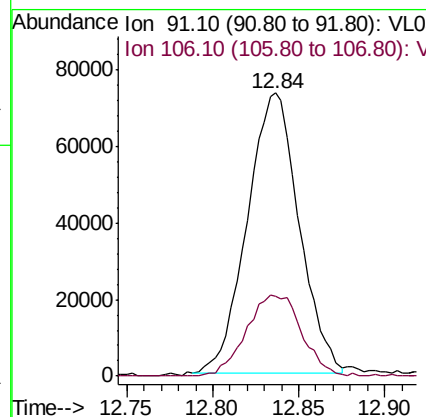
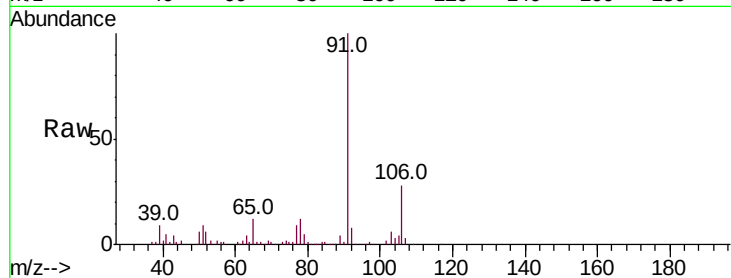




#58
Ethyl Benzene
Concen: 0.566 ppbv
RT: 12.84 min Scan# 3079
Delta R.T. -0.01 min
Lab File: VL033959.D
Acq: 25 Jun 2019 5:55

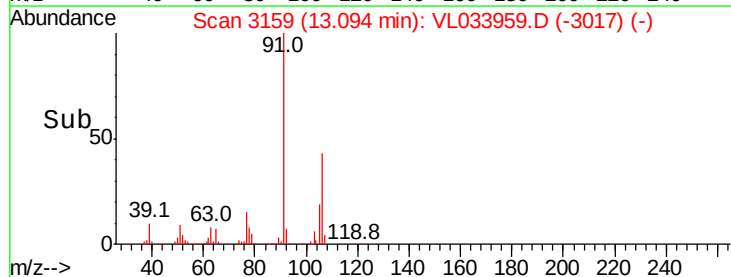
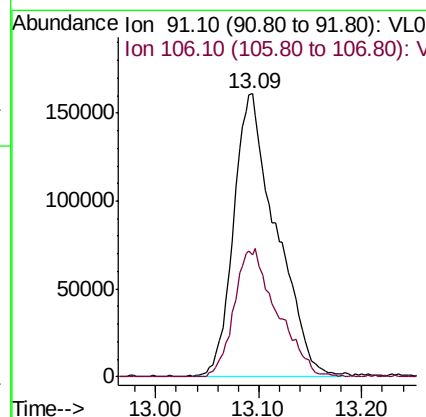
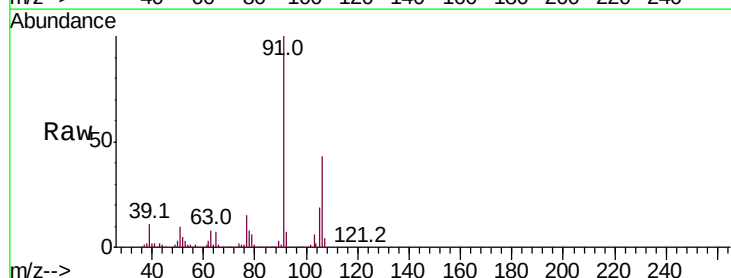
Instrument :
MSVOA_L
ClientSampleId :
INFLUENT

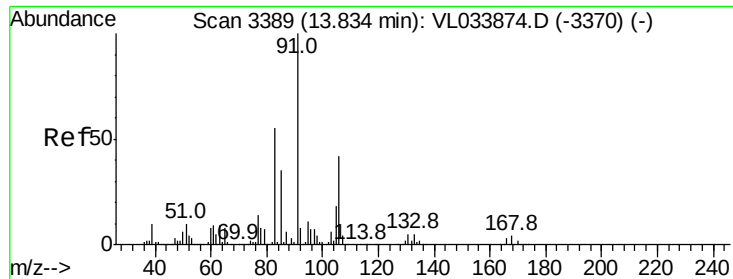
Tot Ion: 91 Resp: 153425
Ion Ratio Lower Upper
91 100
106 28.7 23.0 34.6



#59
m/p-Xylene
Concen: 1.872 ppbv
RT: 13.09 min Scan# 3159
Delta R.T. -0.04 min
Lab File: VL033959.D
Acq: 25 Jun 2019 5:55

Tgt Ion: 91 Resp: 461820
Ion Ratio Lower Upper
91 100
106 46.0 35.8 53.8

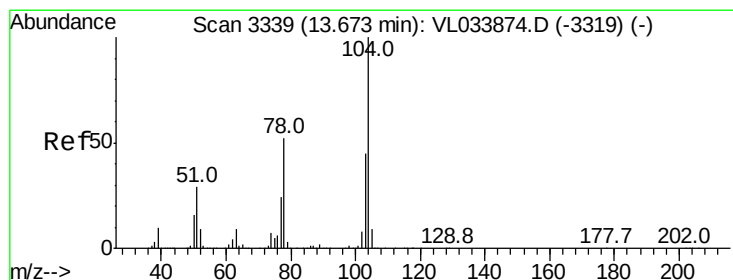
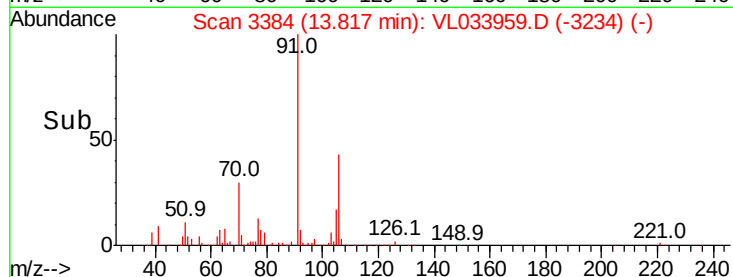
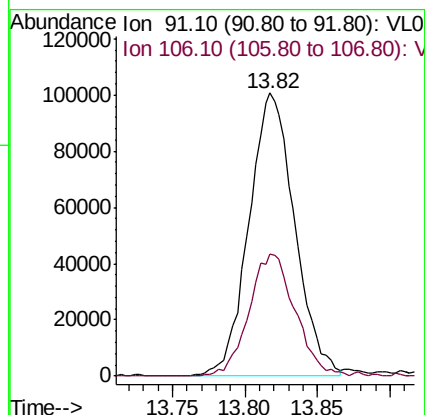
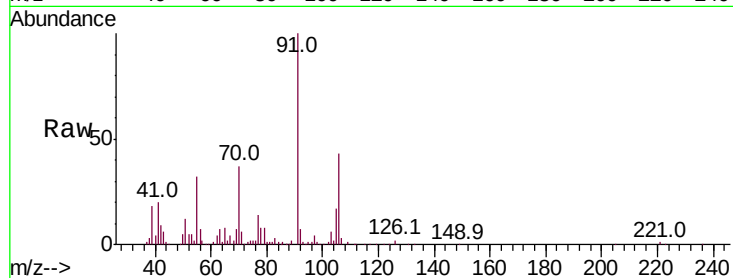




#60
o-Xylene
Concen: 0.861 ppbv
RT: 13.82 min Scan# 3384
Delta R.T. -0.02 min
Lab File: VL033959.D
Acq: 25 Jun 2019 5:55

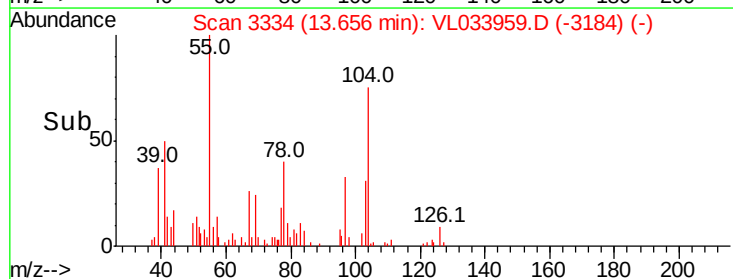
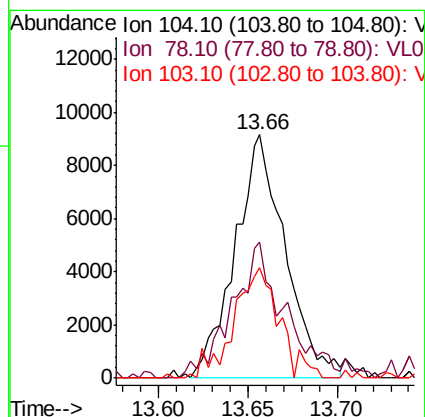
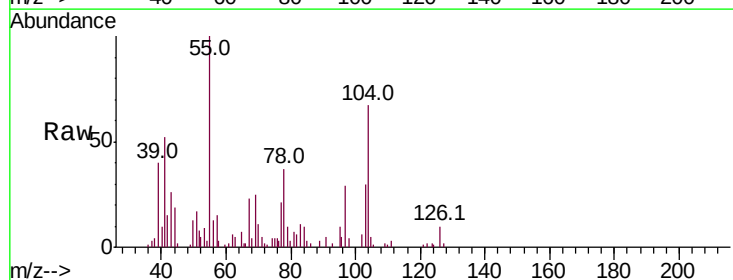
Instrument :
MSVOA_L
ClientSampleId :
INFLUENT

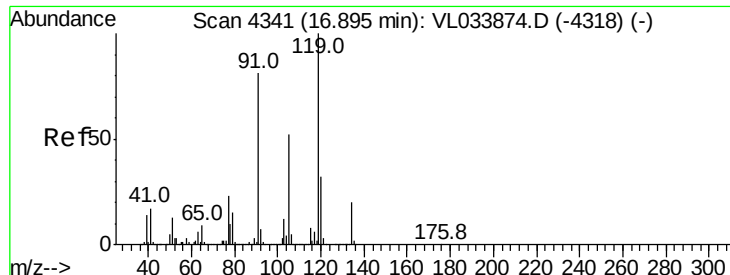
Tot Ion: 91 Resp: 219314
Ion Ratio Lower Upper
91 100
106 43.9 21.7 65.1



#61
Styrene
Concen: 0.109 ppbv
RT: 13.66 min Scan# 3334
Delta R.T. -0.02 min
Lab File: VL033959.D
Acq: 25 Jun 2019 5:55

Tgt Ion: 104 Resp: 17997
Ion Ratio Lower Upper
104 100
78 61.0 43.4 65.0
103 41.9 37.6 56.4

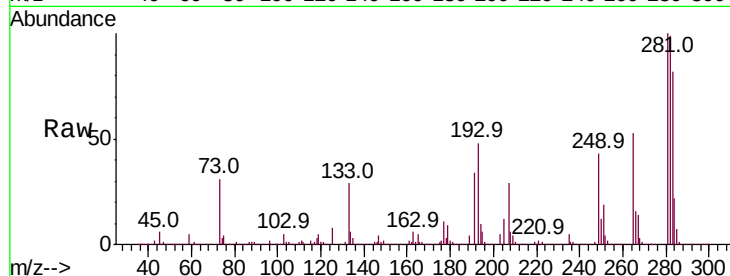




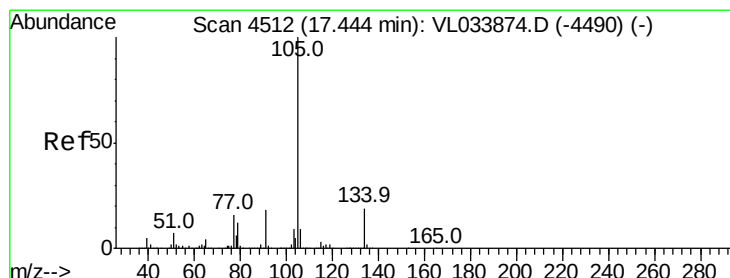
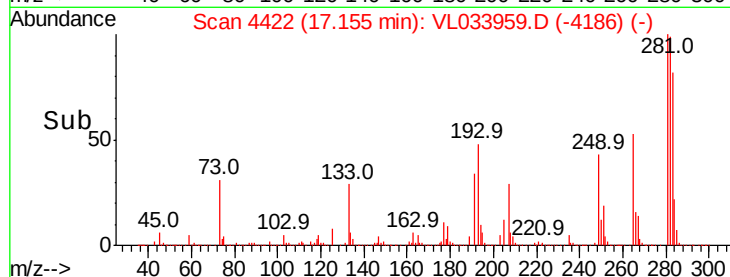
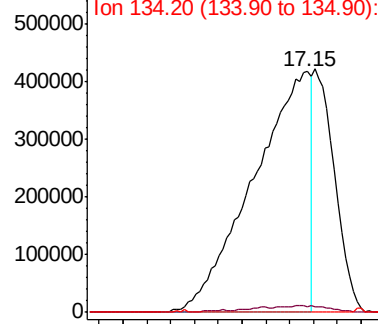
#65
tert-Butylbenzene
Concen: 4.410 ppbv
RT: 17.15 min Scan# 4422
Delta R.T. 0.26 min
Lab File: VL033959.D
Acq: 25 Jun 2019 5:55

Instrument :
MSVOA_L
ClientSampleId :
INFLUENT

Tot Ion:119 Resp: 1400736
Ion Ratio Lower Upper
119 100
91 0.0 66.6 100.0#
134 0.1 15.5 23.3#

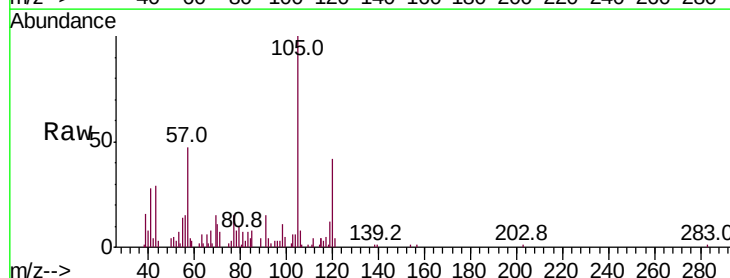


Abundance Ion 119.20 (118.90 to 119.90): V
Ion 91.10 (90.80 to 91.80): VL0
Ion 134.20 (133.90 to 134.90): V

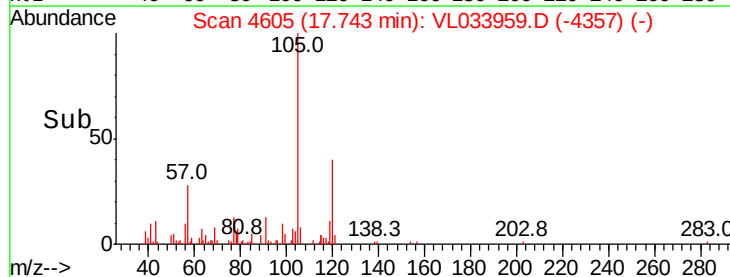
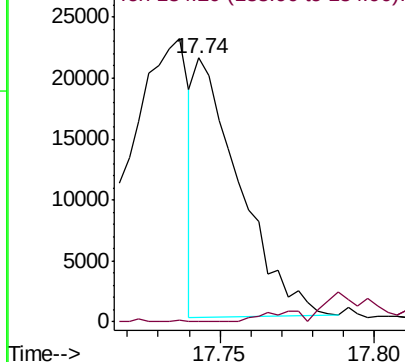


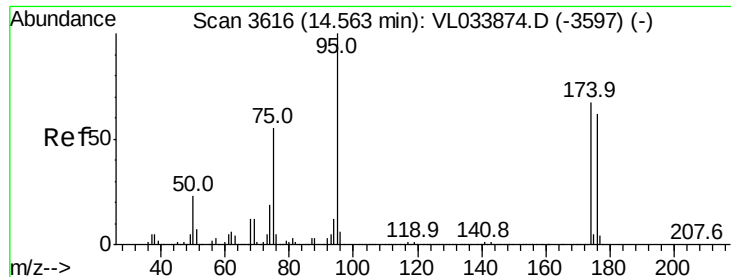
#67
sec-Butylbenzene
Concen: 0.048 ppbv
RT: 17.74 min Scan# 4605
Delta R.T. 0.30 min
Lab File: VL033959.D
Acq: 25 Jun 2019 5:55

Tgt Ion:105 Resp: 21435
Ion Ratio Lower Upper
105 100
134 17.5 14.6 22.0



Abundance Ion 105.10 (104.80 to 105.80): V
Ion 134.20 (133.90 to 134.90): V

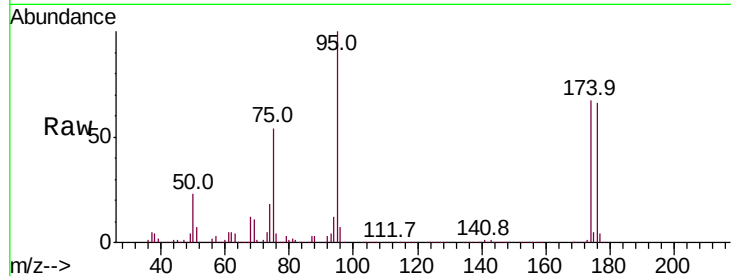




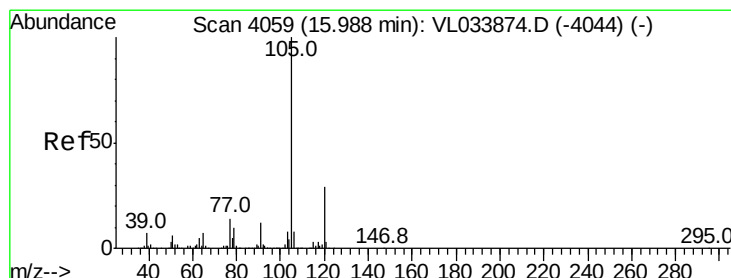
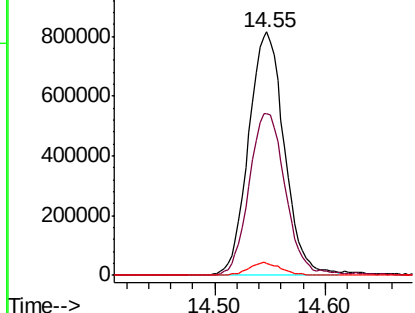
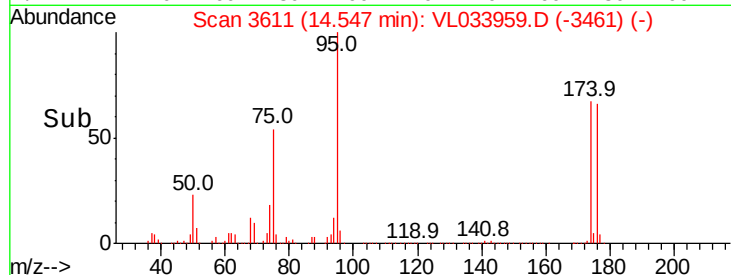
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.277 ppbv
 RT: 14.55 min Scan# 3611
 Delta R.T. -0.02 min
 Lab File: VL033959.D
 Acq: 25 Jun 2019 5:55

Instrument :
 MSVOA_L
 ClientSampled :
 INFLUENT

Tot Ion: 95 Resp: 1833309
 Ion Ratio Lower Upper
 95 100
 174 68.7 54.0 81.0
 175 4.9 3.8 5.8

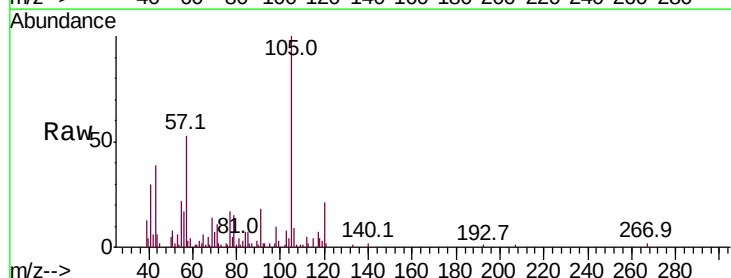


Abundance Ion 95.10 (94.80 to 95.80): VL0
 Ion 174.00 (173.70 to 174.70): V
 Ion 175.00 (174.70 to 175.70): V

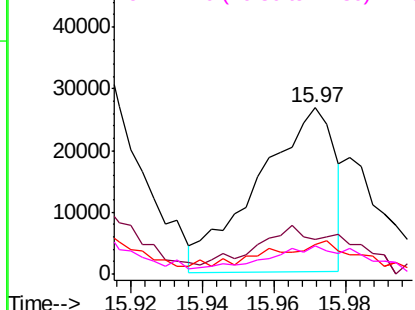
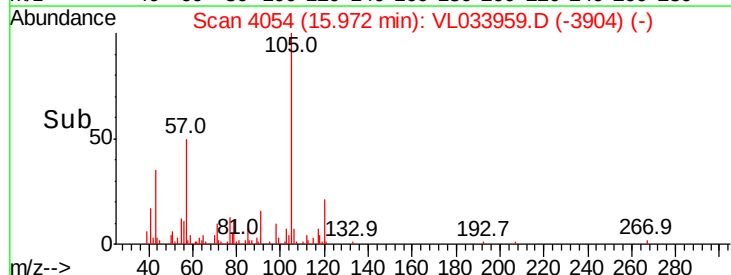


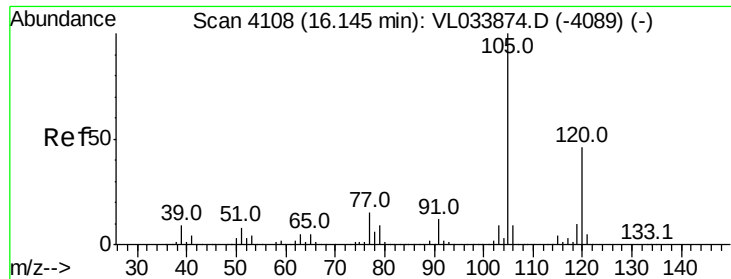
#72
 4-Ethyltoluene
 Concen: 0.136 ppbv
 RT: 15.97 min Scan# 4054
 Delta R.T. -0.02 min
 Lab File: VL033959.D
 Acq: 25 Jun 2019 5:55

Tgt Ion: 105 Resp: 39532
 Ion Ratio Lower Upper
 105 100
 120 38.3 23.5 35.3#
 91 22.9 10.4 15.6#
 77 22.5 11.7 17.5#



Abundance Ion 105.10 (104.80 to 105.80): V
 Ion 120.20 (119.90 to 120.90): V
 Ion 91.10 (90.80 to 91.80): VL0
 Ion 77.10 (76.80 to 77.80): VL0

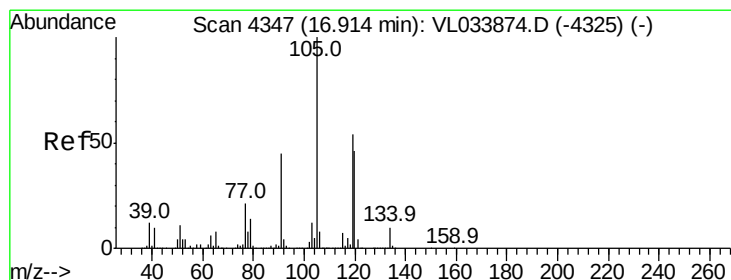
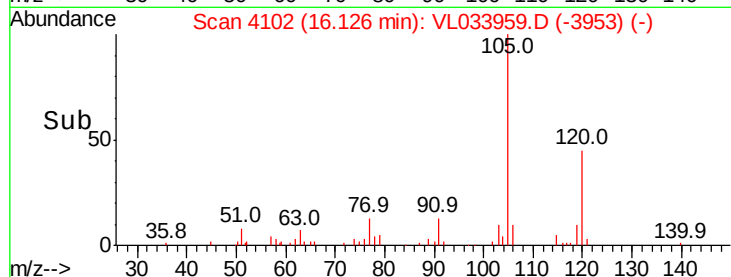
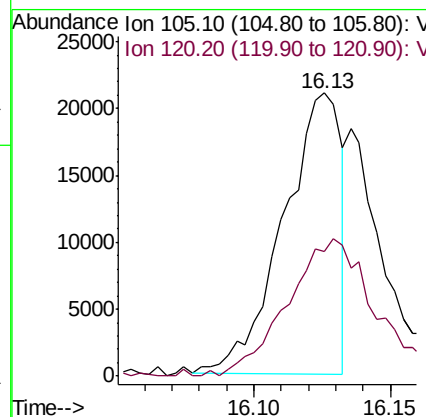
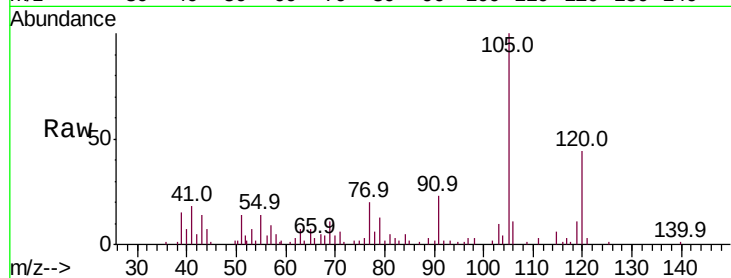




#73
 1,3,5-Trimethylbenzene
 Concen: 0.108 ppbv
 RT: 16.13 min Scan# 4102
 Delta R.T. -0.02 min
 Lab File: VL033959.D
 Acq: 25 Jun 2019 5:55

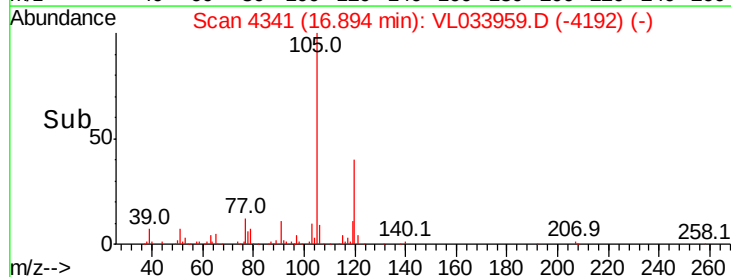
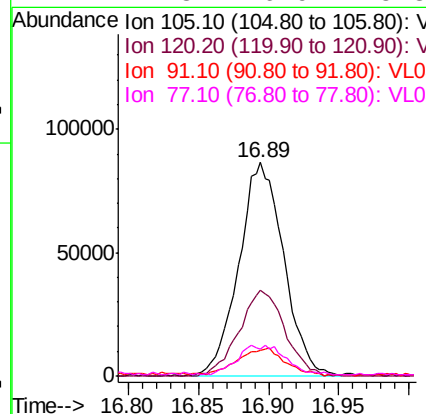
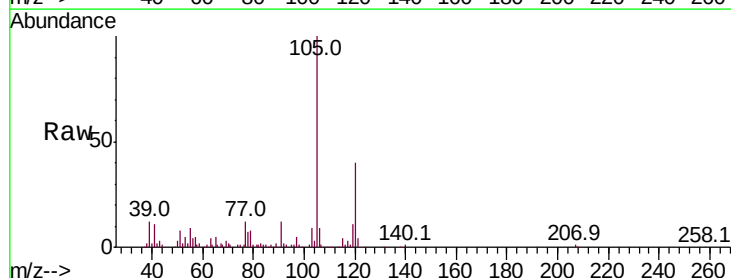
Instrument :
 MSVOA_L
 ClientSampleId :
 INFLUENT

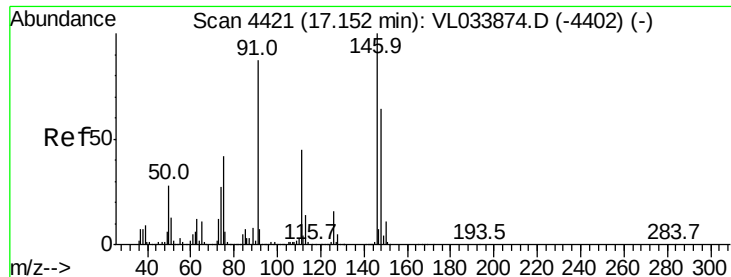
Tot Ion:105 Resp: 30838
 Ion Ratio Lower Upper
 105 100
 120 48.3 37.1 55.7



#74
 1,2,4-Trimethylbenzene
 Concen: 0.584 ppbv
 RT: 16.89 min Scan# 4341
 Delta R.T. -0.02 min
 Lab File: VL033959.D
 Acq: 25 Jun 2019 5:55

Tgt Ion:105 Resp: 192279
 Ion Ratio Lower Upper
 105 100
 120 40.2 36.7 55.1
 91 11.2 35.8 53.8#
 77 11.8 16.9 25.3#





#75

1,3-Dichlorobenzene

Concen: 0.717 ppbv

RT: 17.14 min Scan# 4416

Delta R.T. -0.02 min

Lab File: VL033959.D

Acq: 25 Jun 2019 5:55

Instrument :

MSVOA_L

ClientSampleId :

INFLUENT

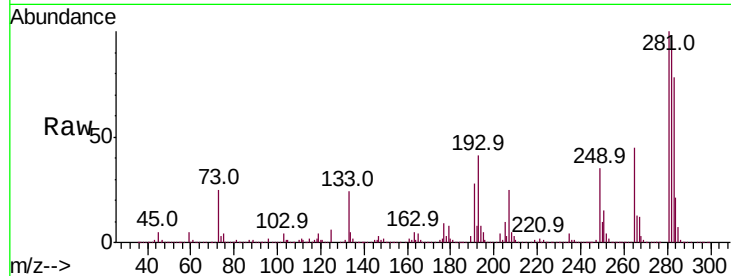
Tot Ion:146 Resp: 147804

Ion Ratio Lower Upper

146 100

111 0.0 22.8 68.3#

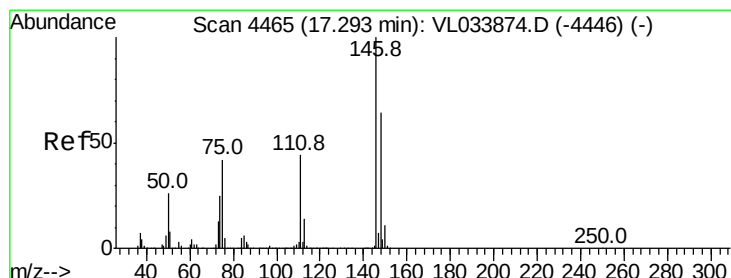
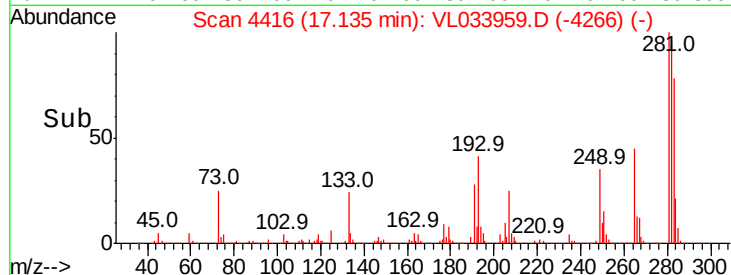
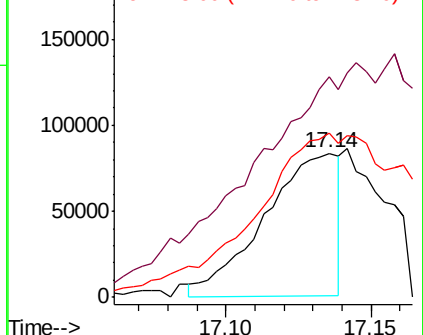
148 256.2 32.2 96.6#



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V



#76

1,4-Dichlorobenzene

Concen: 0.130 ppbv

RT: 17.17 min Scan# 4427

Delta R.T. -0.12 min

Lab File: VL033959.D

Acq: 25 Jun 2019 5:55

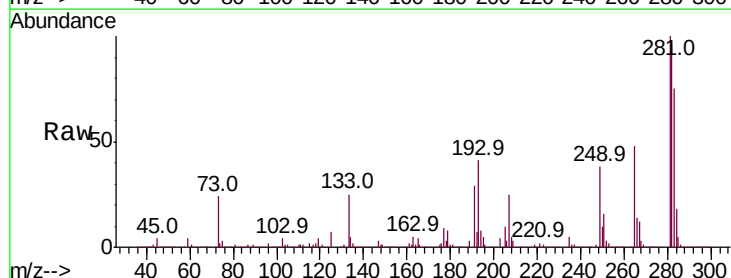
Tgt Ion:146 Resp: 24636

Ion Ratio Lower Upper

146 100

111 2491.0 22.1 66.5#

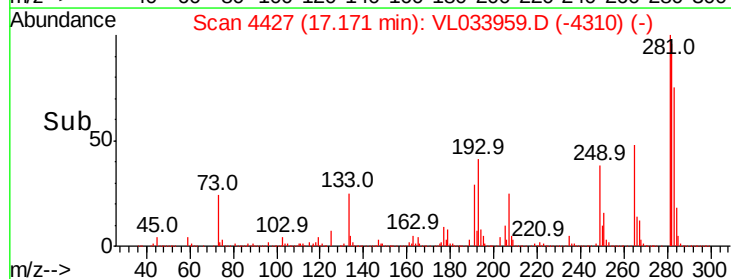
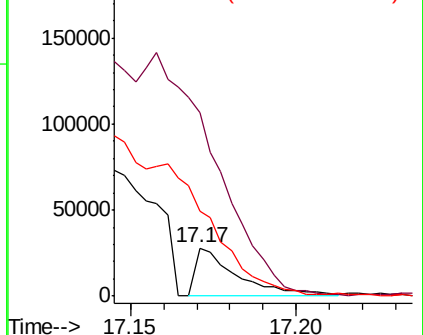
148 0.0 32.4 97.0#

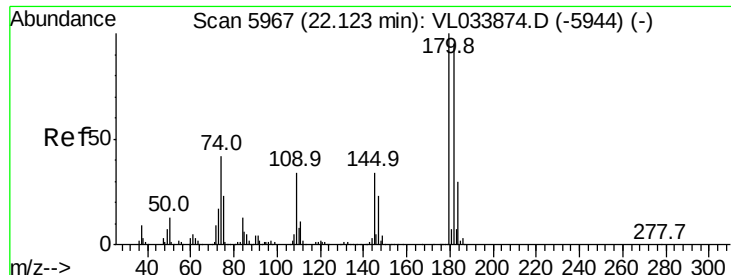


Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V





#81
 1,2,4-Trichlorobenzene
 Concen: 0.562 ppbv
 RT: 21.66 min Scan# 5822
 Delta R.T. -0.47 min
 Lab File: VL033959.D
 Acq: 25 Jun 2019 5:55

Instrument :
 MSVOA_L
 ClientSampleId :
 INFLUENT

Tot Ion	Ratio	Lower	Upper
180	100		
182	19.4	76.9	115.3#
184	0.0	24.5	36.7#

